



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### Region 6 Laboratory

Environmental Services Branch  
10625 Fallstone Road, Houston, TX 77099  
Phone: (281)983-2100 Fax: (281)983-2248

### Final Analytical Report

Site Name ----- Wilcox Oil  
Sample Collection Date(s)-- 04/17/17 - 04/19/17  
Contact----- Katrina Coltrain(6SF-LP)  
Report Date----- 08/22/17  
Project #----- 17SF055  
Work Order(s)----- 1704016  
1704017  
1704018

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#### **Analyses included in this report:**

Metals ICP CLP

Metals ICP/MS CLP

Metals Mercury CLP (E)

VOA CLP Low Level (0.5)

VOA CLP OLM04.2/5035 (Dry Wt)

VOA CLP Routine List (Dry Wt)

#### **Report Narrative**

##### **Volatiles waters:**

Acetone is qualified as estimated in sample 1704018-02 due to failure of this analyte in the second source verification for the initial calibration.

Samples are field blanks. No matrix spikes were performed.

##### **Volatile Solids:**

Several samples were received with high PID readings, indicating high concentrations of volatile organics. Samples that contained extremely high concentrations of volatiles could not be analyzed by Method 5035 and were analyzed using medium concentration procedures only (extraction with methanol, dilution into water, and analysis by purge and trap-GC/MS). The affected samples are listed in the medium level section. All aliquots for both 5035 and medium concentration analyses were collected by 5035, extruded, and kept sealed and frozen until preparation to minimize volatile losses. Both Method 5035 and medium level analyses may yield inconsistent and/or low concentrations for samples with high concentrations of hydrocarbons. If inconsistent concentrations and/or multiple QC failures were found, the analytical results for both 5035 and medium level were reported. Many targets are qualified as estimated for inconsistent concentrations found among these analyses.

## **Report Narrative (cont'd)**

The surrogates Toluene-d8 and/or Bromofluorobenzene fail high in several samples due to co-elutions on the quantitation ion from hydrocarbons. There are no associated targets or the associated targets are already qualified.

### **Method 5035:**

Concentrations that exceed the calibration range are qualified as >CR and are considered estimated. Dilutions to get concentrations in range cannot be performed with 5035.

Concentrations that significantly exceeded the calibration range (>1,000 ug/Kg) should be considered less reliable. If targets exceeded the calibration range in 5035, the sample was re-analyzed using the medium level procedure. Only targets that exceeded the calibration range are reported in the medium level unless other QC failures or inconsistencies were present.

In sample 1704017-13, Cyclohexane, Methylcyclohexane and Isopropylbenzene exceeded the calibration range for 5035 and were reanalyzed using medium level. The concentrations for these analytes in 5035 are much higher than medium results. All three analytes are qualified as estimated due to differences.

All three containers for sample 1704017-22 were analyzed using 5035. The first container (reported as 1704017-22) had very high concentrations of hydrocarbons (large hump of non-target unresolved hydrocarbons with four targets reported). Two surrogates fail high in this analysis due to interferences from hydrocarbons. The other two containers had very little hydrocarbons and confirmed with each other (no hydrocarbon hump present and three targets reported). One of these re-analyses is reported as 1704017-22RE1. The second reanalysis was not reported since it confirmed with 1704017-22RE1. The re-analyses were performed outside holding time. Cyclohexane, Methylcyclohexane, and Isopropylbenzene concentrations and/or reporting limits (RLs) are qualified as estimated in both analyses due to inconsistencies.

Sample 1704018-04 was analyzed twice by 5035 (5035 reanalysis reported as RE1) and once by medium level. Most concentrations are reported as estimated due to significant differences among the three analyses. The concentrations in 1704018-04RE1 (5035 reanalysis) are much lower than 5035 original and medium level. The results are summarized below in ug/Kg:

	<b>1704018-04</b>	<b>1704018-04RE1</b>	<b>1704018-04</b>
	5035	5035	Med
Cyclohexane	4,930 >CR	239	1,200
Benzene	185	42	<RL
Methylcyclohexane	14,000 >CR	742 >CR	5,360
Toluene	128	16	<RL
Ethylbenzene	83	7	<RL
m/p-Xylene	864 >CR	53	384
o-Xylene	109	9	<RL
Isopropylbenzene	299	14	176

Sample 1704018-07 was analyzed twice by 5035 (5035 reanalysis reported as RE1) and once by medium level. Cyclohexane, Methylcyclohexane and/or Ethylbenzene exceeded the calibration range in 5035 analyses. Benzene, Toluene, ortho-Xylene and Isopropylbenzene concentrations and/or RLs are qualified as estimated due to differences among the three analyses. Note: Concentrations that exceed the calibration range and confirm within a factor of X2 are not qualified. The criterion is narrower for analytes reported within calibration range (30%). The following analytes are qualified as blank related due to presence in the associated preparation blank (B7D1808-BLK1 and B7D1808-BLK4):

1704016-18: Acetone

1704017-22RE1: Acetone and 2-Butanone

**Batch B7D1808:** Three analytes fail low and five fail high in BS4. Of those failures, three are

## **Report Narrative (cont'd)**

significant. The RLs for Dichlorodifluoromethane and Chloromethane are raised in sample 1704017-22RE1 due to low failures. Absence or presence at the lower RL could not be verified. Methylcyclohexane fails high and is already qualified in the associated sample (1704017-22RE1). The surrogate Bromofluorobenzene and target 1,1-Dichloroethene fail low in MSD1. Two RPDs fail. The failures should not affect the data.

### **Volatile solids (Medium):**

Samples 1704017-12, 1704018-05, 1704018-06, 1704018-08, 1704018-09, and 1704018-10 are reported by medium level only due to high concentrations. Method 5035 analysis was unusable or not performed due to high PID readings.

For sample 1704017-13, only Cyclohexane, Methylcyclohexane and Isopropylbenzene are reported for medium level. Concentrations for medium level are significantly lower compared to those in 5035 (all were > calibration range in 5035). These targets are qualified as estimated.

**Batch B7F0902:** Four analytes fail significantly low in the BS low due to methanol suppression in the mass spectrometer. The RLs for Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene, and 1,1,2-Trichloro-1,2,2-trifluoroethane are raised in all associated samples due to low failures. Absence or presence at the lower RL could not be verified. An MS/MSD was performed using a sample in project 17SF056 and is not reported with this set.

### **Metals Mercury:**

Batch B7E0104:

Sample 1704009-01 was used as the source sample for the MS1/MSD1 for both 17SF054 and 17SF055. This is the reason this sample is on the 17SF055 report.

### **Batch B7E0216:**

MS1/MSD1 (Source Sample 1704016-02): Sample has reportable analyte concentration. Spike Recovery for MS1 is low and Spike Recovery is high for the MSD1. RPD is outside limits and may be due to non-homogenous samples. Sample result is qualified and an estimate.

### **Batch B7E0807:**

MS1/MSD1 (Source Sample 1704017-21): Sample has reportable analyte concentration. Spike Recovery is high for the MS1 and Spike Recovery is low for the MSD1. RPD is outside limits and may be due to non-homogenous samples. Sample result is qualified and an estimate.

### **Metals ICP:**

### **Batch B7D1905:**

BLK1: Zinc concentration in the blank exceeded the reporting limit. Samples with reported results less than 10 times the blank concentration are qualified and may be blank affected.

MS1/MSD1 (Source Sample 1704016-02): Aluminum and Iron spike recoveries are outside acceptance limits. The source results are four times greater than the spike added concentration and the spike recoveries cannot be reliably calculated. Copper, nickel, zinc and magnesium spike recoveries are outside lower acceptance limits. The source sample results are qualified and are an estimate. Manganese spike recovery was outside upper acceptance limits. The source sample results are qualified and are estimates.

## **Report Narrative (cont'd)**

MS2/MSD2 (Source Sample 1704016-06): Aluminum, Manganese and Iron spike recoveries are outside acceptance limits. The source results are four times greater than the spike added concentration and the spike recoveries cannot be reliably calculated.

MS3/MSD3 (Source Sample 1704016-18): Aluminum and Iron spike recoveries are outside acceptance limits. The source results are four times greater than the spike added concentration and the spike recoveries cannot be reliably calculated. Manganese spike recovery was outside acceptance limits. Source results are qualified and are an estimate.

### **Batch B7D2005:**

BLK1: Copper and Zinc concentration in the blank exceeded the reporting limits. Samples with reported results less than 10 times the blank concentration are qualified and may be blank affected.

MS1/MSD1 (Source Sample 1704017-04): Aluminum and Iron spike recoveries are outside acceptance limits. The source results are four times greater than the spike added concentration and the spike recoveries cannot be reliably calculated. Manganese spike recovery was outside acceptance limits. Source results are qualified and are an estimate.

MS2/MSD2 (Source Sample 1704017-12): Aluminum and Iron spike recoveries are outside acceptance limits. The source results are four times greater than the spike added concentration and the spike recoveries cannot be reliably calculated. Zinc and Manganese spike recoveries were outside acceptance limits. Source results are qualified and are an estimate. Spike duplicate RPD for Zinc was outside acceptance limits possibly due to non-homogenous samples.

### **Batch B7D2605:**

BLK1: Copper concentration in the blank exceeded the reporting limit. Samples with reported results less than 10 times the blank concentration are qualified and may be blank affected.

MS1/MSD1 (Source Sample 1704017-21): Aluminum, Iron and Manganese spike recoveries are outside acceptance limits. The source results are four times greater than the spike added concentration and the spike recoveries cannot be reliably calculated. Cadmium, Copper, Nickel and Zinc spike recoveries are outside lower acceptance limits. The source sample results are qualified and are an estimate. Zinc Spike duplicate RPD was outside acceptance limits possibly due to non-homogenous samples.

MS2/MSD2 (Source Sample 1704017-28): Aluminum, Iron and Manganese spike recoveries are outside acceptance limits. The source results are four times greater than the spike added concentration and the spike recoveries cannot be reliably calculated. Cadmium, Cobalt, Nickel and Vanadium spike recoveries are outside lower acceptance limits. The source results are qualified and are estimates.

### **Metals ICP-MS:**

#### **Batch B7D1906:**

MS1 (Source Sample 1704016-02): Antimony, Selenium, and Lead exceed lower control limits. Source results are qualified and are estimated.

## **Report Narrative (cont'd)**

MSD1 (Source Sample 1704016-02): Antimony, Arsenic and Selenium exceed lower control limits. Arsenic, antimony, and selenium results are qualified and are estimated. RPD's for arsenic and selenium are outside the control limits, likely due to non-homogenous samples.

MS3 (Source Sample 1704016-18): Antimony and Selenium exceed lower control limits. Source results are qualified and are estimates.

MSD3 (Source Sample 1704016-18): Antimony and Selenium exceed lower control limits. Source results are qualified and are estimates. RPDs control limits are exceeded for arsenic and selenium, likely due to non- homogenous samples.

### **Batch B7D2006:**

MS1/MSD1 (Sample Source: 1704017-04): Antimony exceeds lower control limits. Source results are qualified and are estimates.

MS2/MSD2 (Sample Source: 1704017-12): Antimony exceeds lower control limits. Source results are qualified and are estimates..

### **Batch B7D2606:**

MS1/MSD1 (Source Sample 1704017-21): Antimony exceeds lower control limits. Source results are qualified and are estimates. Lead source results are four or more times greater than the spike level, therefore cannot be reliably calculated.

MS2 (Source Sample 1704017-28): Antimony and Arsenic exceed lower control limits. Arsenic and Antimony results are qualified and are estimated.

MSD2 (Source Sample 1704017-28): Antimony and Arsenic exceed lower control limits. Lead exceeds upper control limits. Arsenic, Antimony, and Lead results are qualified and are estimated.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

The reporting limit (sometimes referred to as a quantitation limit) is defined as the lowest concentration at which an analyte can be reliably measured and reported without qualification. Reporting limits are adjusted for sample size, dilution, and matrix interference. Concentrations below the reporting limit are reported as non-detects or <RL.

### Report Approvals:

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Richard McMillin  
Region 6 Laboratory Technical Manager

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David W. McQuiddy  
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road  
Houston, Texas 77099

**Sample Receipt and Disposal**

Site Name: Wilcox Oil

Project Number: 17SF055

Data Management Coordinator: Christy Warren

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Data Management Coordinator Signature

Date

Date Transmitted: \_\_\_\_/\_\_\_\_/\_\_\_\_\_

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren  
Data Management Coordinator  
Region 6 Laboratory  
6MD-HS

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Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

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Signature

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Date

Please provide a reason for holding:



## Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099

Phone:(281)983-2100 Fax:(281)983-2248

## ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
ER-170417-1	1704016-01	Liquid	4/17/17 15:45	04/18/17 09:10
LPA-SB-21-0.5	1704016-02	Solid	4/17/17 12:15	04/18/17 09:10
LPA-SB-21-2.0	1704016-03	Solid	4/17/17 12:20	04/18/17 09:10
LPA-SB-21-6.0	1704016-04	Solid	4/17/17 12:25	04/18/17 09:10
LPA-SB-21-8.5	1704016-05	Solid	4/17/17 12:30	04/18/17 09:10
LPA-SB-24-0.5	1704016-06	Solid	4/17/17 15:30	04/18/17 09:10
LPA-SB-24-10.0	1704016-07	Solid	4/17/17 15:45	04/18/17 09:10
LPA-SB-24-10.0-D	1704016-08	Solid	4/17/17 15:40	04/18/17 09:10
LPA-SB-24-2.0	1704016-09	Solid	4/17/17 15:35	04/18/17 09:10
LPA-SB-24-20.0	1704016-10	Solid	4/17/17 15:50	04/18/17 09:10
LPA-SB-24-6.0	1704016-11	Solid	4/17/17 15:40	04/18/17 09:10
LPA-SB-29-0.5	1704016-12	Solid	4/17/17 14:30	04/18/17 09:10
LPA-SB-29-10.0	1704016-13	Solid	4/17/17 14:45	04/18/17 09:10
LPA-SB-29-16.5	1704016-14	Solid	4/17/17 14:50	04/18/17 09:10
LPA-SB-29-2.0	1704016-15	Solid	4/17/17 14:35	04/18/17 09:10
LPA-SB-29-6.0	1704016-16	Solid	4/17/17 14:40	04/18/17 09:10
WPA-SB-01-0.5	1704016-17	Solid	4/17/17 16:45	04/18/17 09:10
WPA-SB-01-2.0	1704016-18	Solid	4/17/17 16:50	04/18/17 09:10
LPA-SB-22-0.5	1704017-01	Solid	4/18/17 9:30	04/19/17 08:55
LPA-SB-22-10.0	1704017-02	Solid	4/18/17 9:45	04/19/17 08:55
LPA-SB-22-18.0	1704017-03	Solid	4/18/17 9:50	04/19/17 08:55
LPA-SB-22-2.0	1704017-04	Solid	4/18/17 9:35	04/19/17 08:55
LPA-SB-22-6.0	1704017-05	Solid	4/18/17 9:40	04/19/17 08:55
LPA-SB-25-0.5	1704017-06	Solid	4/18/17 10:35	04/19/17 08:55
LPA-SB-25-10.0	1704017-07	Solid	4/18/17 10:50	04/19/17 08:55
LPA-SB-25-15.0	1704017-08	Solid	4/18/17 10:55	04/19/17 08:55
LPA-SB-25-2.0	1704017-09	Solid	4/18/17 10:40	04/19/17 08:55
LPA-SB-25-6.0	1704017-10	Solid	4/18/17 10:45	04/19/17 08:55
WPA-SB-02-0.5	1704017-11	Solid	4/18/17 8:00	04/19/17 08:55
WPA-SB-02-10.0	1704017-12	Solid	4/18/17 8:15	04/19/17 08:55
WPA-SB-02-12.0	1704017-13	Solid	4/18/17 8:20	04/19/17 08:55
WPA-SB-02-2.0	1704017-14	Solid	4/18/17 8:05	04/19/17 08:55
WPA-SB-02-6.0	1704017-15	Solid	4/18/17 8:10	04/19/17 08:55
WPA-SB-22-0.5	1704017-16	Solid	4/18/17 13:20	04/19/17 08:55
WPA-SB-22-2.0	1704017-17	Solid	4/18/17 13:25	04/19/17 08:55
WPA-SB-22-6.0	1704017-18	Solid	4/18/17 13:30	04/19/17 08:55



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## ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
WPA-SB-22-8.0	1704017-19	Solid	4/18/17 13:35	04/19/17 08:55
WPA-SB-22-8.0-D	1704017-20	Solid	4/18/17 13:35	04/19/17 08:55
WPA-SB-24-0.5	1704017-21	Solid	4/18/17 14:25	04/19/17 08:55
WPA-SB-24-10.0	1704017-22	Solid	4/18/17 14:40	04/19/17 08:55
WPA-SB-24-10.0-D	1704017-23	Solid	4/18/17 14:40	04/19/17 08:55
WPA-SB-24-2.0	1704017-24	Solid	4/18/17 14:30	04/19/17 08:55
WPA-SB-24-6.0	1704017-25	Solid	4/18/17 14:35	04/19/17 08:55
WPA-SB-26-0.5	1704017-26	Solid	4/18/17 15:00	04/19/17 08:55
WPA-SB-26-2.0	1704017-27	Solid	4/18/17 15:05	04/19/17 08:55
WPA-SB-26-6.0	1704017-28	Solid	4/18/17 15:10	04/19/17 08:55
WPA-SB-26-6.0-D	1704017-29	Solid	4/18/17 15:10	04/19/17 08:55
WPA-SB-26-7.5	1704017-30	Solid	4/18/17 15:15	04/19/17 08:55
WPA-SB-26-7.5-D	1704017-31	Solid	4/18/17 15:15	04/19/17 08:55
ER-170418-1	1704018-01	Liquid	4/18/17 14:30	04/20/17 08:40
ER-170419-1	1704018-02	Liquid	4/19/17 13:40	04/20/17 08:40
TB-170418-1	1704018-03	Liquid	4/18/17 6:00	04/20/17 08:40
WPA-SB-17-10.0	1704018-04	Solid	4/19/17 9:30	04/20/17 08:40
WPA-SB-17-6.0	1704018-05	Solid	4/19/17 9:25	04/20/17 08:40
WPA-SB-17-6.0-D	1704018-06	Solid	4/19/17 9:25	04/20/17 08:40
WPA-SB-18-10.0	1704018-07	Solid	4/19/17 10:35	04/20/17 08:40
WPA-SB-18-13.0	1704018-08	Solid	4/19/17 10:40	04/20/17 08:40
WPA-SB-20-10.0	1704018-09	Solid	4/19/17 12:30	04/20/17 08:40
WPA-SB-20-22.0	1704018-10	Solid	4/19/17 12:35	04/20/17 08:40



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## QC SUMMARY REPORT

Metals ICP CLP	
B7D1905	
Solid	
<b>Samples: 17</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B7D1905-BLK1	
B7D1905-BS1	
B7D1905-MS1	1704016-02
B7D1905-MS2	1704016-06
B7D1905-MS3	1704016-18
B7D1905-MSD1	1704016-02
B7D1905-MSD2	1704016-06
B7D1905-MSD3	1704016-18
B7D1905-SRM1	
B7D2005	
Solid	
<b>Samples: 16</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B7D2005-BLK1	
B7D2005-BS1	
B7D2005-MS1	1704017-04
B7D2005-MS2	1704017-12
B7D2005-MSD1	1704017-04
B7D2005-MSD2	1704017-12
B7D2005-SRM1	
B7D2605	
Solid	
<b>Samples: 15</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B7D2605-BLK1	
B7D2605-BS1	
B7D2605-MS1	1704017-21
B7D2605-MS2	1704017-28
B7D2605-MSD1	1704017-21
B7D2605-MSD2	1704017-28
B7D2605-SRM1	
B7D2607	
Liquid	
<b>Samples: 1</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B7D2607-BLK1	
B7D2607-BS1	
B7E1704	
Liquid	
<b>Samples: 0</b>	<b>ReExts: 1</b>
LAB NUMBER	SOURCE
B7E1704-BLK1	
B7E1704-BS1	



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Metals ICP/MS CLP	
<b>B7D1906</b>	
Solid	
<b>Samples: 17</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B7D1906-BLK1	
B7D1906-BS1	
B7D1906-MS1	1704016-02
B7D1906-MS2	1704016-06
B7D1906-MS3	1704016-18
B7D1906-MSD1	1704016-02
B7D1906-MSD2	1704016-06
B7D1906-MSD3	1704016-18
B7D1906-SRM1	
<b>B7D2006</b>	
Solid	
<b>Samples: 16</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B7D2006-BLK1	
B7D2006-BS1	
B7D2006-MS1	1704017-04
B7D2006-MS2	1704017-12
B7D2006-MSD1	1704017-04
B7D2006-MSD2	1704017-12
B7D2006-SRM1	
<b>B7D2606</b>	
Solid	
<b>Samples: 15</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B7D2606-BLK1	
B7D2606-BS1	
B7D2606-MS1	1704017-21
B7D2606-MS2	1704017-28
B7D2606-MSD1	1704017-21
B7D2606-MSD2	1704017-28
B7D2606-SRM1	
<b>B7D2608</b>	
Liquid	
<b>Samples: 1</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B7D2608-BLK1	
B7D2608-BS1	



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## Metals Mercury CLP (E)

**B7E0104**

Liquid

Samples: 1 ReExts: 0

LAB NUMBER	SOURCE
B7E0104-BLK1	
B7E0104-BLK2	
B7E0104-BLK3	
B7E0104-BS1	
B7E0104-CCV1	
B7E0104-CCV2	
B7E0104-MS1	1704009-01
B7E0104-MSD1	1704009-01

**B7E0216**

Solid

Samples: 17 ReExts: 0

LAB NUMBER	SOURCE
B7E0216-BLK1	
B7E0216-BLK2	
B7E0216-BLK3	
B7E0216-BLK4	
B7E0216-BS1	
B7E0216-CCV1	
B7E0216-CCV2	
B7E0216-CCV3	
B7E0216-MS1	1704016-02
B7E0216-MS2	1704016-06
B7E0216-MS3	1704016-18
B7E0216-MSD1	1704016-02
B7E0216-MSD2	1704016-06
B7E0216-MSD3	1704016-18
B7E0216-SRM1	

**B7E0806**

Solid

Samples: 16 ReExts: 0

LAB NUMBER	SOURCE
B7E0806-BLK1	
B7E0806-BLK2	
B7E0806-BLK3	
B7E0806-BLK4	
B7E0806-BS1	
B7E0806-CCV1	
B7E0806-CCV2	
B7E0806-CCV3	
B7E0806-MS1	1704017-04
B7E0806-MS2	1704017-12
B7E0806-MSD1	1704017-04
B7E0806-MSD2	1704017-12
B7E0806-SRM1	

**B7E0807**



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<b>Solid</b>	
<b>Samples: 15</b>	<b>ReExts: 0</b>
<b>LAB NUMBER</b>	<b>SOURCE</b>
B7E0807-BLK1	
B7E0807-BLK2	
B7E0807-BLK3	
B7E0807-BLK4	
B7E0807-BS1	
B7E0807-CCV1	
B7E0807-CCV2	
B7E0807-CCV3	
B7E0807-MS1	1704017-21
B7E0807-MS2	1704017-28
B7E0807-MSD1	1704017-21
B7E0807-MSD2	1704017-28
B7E0807-SRM1	

<b>Solids, Dry Weight</b>	
<b>B7D1806</b>	
<b>Solid</b>	
<b>Samples: 17</b>	<b>ReExts: 0</b>
<b>LAB NUMBER</b>	<b>SOURCE</b>
B7D1806-DUP1	1704016-02

  

<b>B7D1907</b>	
<b>Solid</b>	
<b>Samples: 31</b>	<b>ReExts: 0</b>
<b>LAB NUMBER</b>	<b>SOURCE</b>
B7D1907-DUP1	1704017-01
B7D1907-DUP2	1704017-21

  

<b>B7D2503</b>	
<b>Solid</b>	
<b>Samples: 7</b>	<b>ReExts: 0</b>
<b>LAB NUMBER</b>	<b>SOURCE</b>
B7D2503-DUP1	1704018-10

<b>VOA CLP Low Level (0.5)</b>	
<b>B7D2703</b>	
<b>Liquid</b>	
<b>Samples: 3</b>	<b>ReExts: 0</b>
<b>LAB NUMBER</b>	<b>SOURCE</b>
B7D2703-BLK1	
B7D2703-BS1	



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### VOA CLP OLM04.2/5035 (Dry Wt)

**B7D1808**

**Solid**

**Samples: 13**

**ReExts: 3**

LAB NUMBER	SOURCE
B7D1808-BLK1	
B7D1808-BLK2	
B7D1808-BLK3	
B7D1808-BLK4	
B7D1808-BLK5	
B7D1808-BS1	
B7D1808-BS2	
B7D1808-BS3	
B7D1808-BS4	
B7D1808-BS5	
B7D1808-MS1	1704016-18
B7D1808-MSD1	1704016-18

### VOA CLP Routine List (Dry Wt)

**B7F0902**

**Solid**

**Samples: 9**

**ReExts: 0**

LAB NUMBER	SOURCE
B7F0902-BLK1	
B7F0902-BS1	



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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704016-01

**Station ID:** ER-170417-1

Batch: B7D2608

Date Collected: 04/17/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	04/26/17	05/25/17
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704016-01

Station ID: ER-170417-1

Batch: B7E0104

Date Collected: 04/17/17

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	05/01/17	05/02/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-01RE1**Station ID:** ER-170417-1

Batch: B7E1704

Date Collected: 04/17/17

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	05/18/17	05/19/17
Barium (7440-39-3)	U		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	U		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	U		150	"	"	"
Manganese (7439-96-5)	U		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	U		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-02

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-21-0.5

Date Collected: 04/17/17

Sample Wt: 0.542g

Sample Qualifiers:

%Solids: 88.59

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,620		10.4	1	04/19/17	05/02/17
Barium (7440-39-3)	39.1		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	2.1		0.5	"	"	"
Calcium (7440-70-2)	1,440		15.6	"	"	"
Chromium (7440-47-3)	11.2		1.0	"	"	"
Cobalt (7440-48-4)	4.0		2.1	"	"	"
Copper (7440-50-8)	62.6	J	2.1	"	"	"
Iron (7439-89-6)	14,000		2.6	"	"	"
Magnesium (7439-95-4)	5,770	J	15.6	"	"	"
Manganese (7439-96-5)	187	J	0.5	"	"	"
Nickel (7440-02-2)	15.8	J	2.1	"	"	"
Potassium (7440-09-7)	386		104	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		52.1	"	"	"
Vanadium (7440-62-2)	15.0		2.1	"	"	"
Zinc (7440-66-6)	313	J	2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-02

Batch: B7D1906

Sample Type: Solid

Station ID: LPA-SB-21-0.5

Date Collected: 04/17/17

Sample Wt: 0.542g

%Solids: 88.59

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U	UJ	0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	3.2	J	0.5	"	"	"
Lead (7439-92-1)	146	J	0.5	"	"	"
Selenium (7782-49-2)	U	UJ	1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704016-02

Batch: B7E0216

Sample Type: Solid

Station ID: LPA-SB-21-0.5

Date Collected: 04/17/17

Sample Wt: 0.144g

%Solids: 88.59

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.285	J	0.063	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-03

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-21-2.0

Date Collected: 04/17/17

Sample Wt: 0.542g

%Solids: 87.84

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	<b>5,670</b>		10.5	1	04/19/17	05/02/17
Barium (7440-39-3)	<b>73.6</b>		1.1	"	"	"
Beryllium (7440-41-7)	<b>U</b>		0.5	"	"	"
Cadmium (7440-43-9)	<b>4.7</b>		0.5	"	"	"
Calcium (7440-70-2)	<b>13,300</b>		15.8	"	"	"
Chromium (7440-47-3)	<b>14.7</b>		1.1	"	"	"
Cobalt (7440-48-4)	<b>4.7</b>		2.1	"	"	"
Copper (7440-50-8)	<b>43.6</b>		2.1	"	"	"
Iron (7439-89-6)	<b>26,600</b>		2.6	"	"	"
Magnesium (7439-95-4)	<b>2,270</b>		15.8	"	"	"
Manganese (7439-96-5)	<b>180</b>		0.5	"	"	"
Nickel (7440-02-2)	<b>23.2</b>		2.1	"	"	"
Potassium (7440-09-7)	<b>515</b>		105	"	"	"
Silver (7440-22-4)	<b>U</b>		1.1	"	"	"
Sodium (7440-23-5)	<b>108</b>		52.5	"	"	"
Vanadium (7440-62-2)	<b>17.5</b>		2.1	"	"	"
Zinc (7440-66-6)	<b>396</b>		2.1	"	"	"



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## Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-03

Batch: B7D1906

Sample Type: Solid

Station ID: LPA-SB-21-2.0

Date Collected: 04/17/17

Sample Wt: 0.542g

%Solids: 87.84

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	1.3		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	4.5		0.5	"	"	"
Lead (7439-92-1)	108		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704016-03

Batch: B7E0216

Sample Type: Solid

Station ID: LPA-SB-21-2.0

Date Collected: 04/17/17

Sample Wt: 0.139g

%Solids: 87.84

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.337		0.066	1	05/03/17	05/03/17



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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704016-04**Station ID:** LPA-SB-21-6.0

Batch: B7D1808

Date Collected: 04/17/17

Sample Type: Solid

Sample Wt: 6.198g

Sample Qualifiers:

%Solids: 83.43

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	43.5		89.9	78-122	04/18/17	04/18/17
Toluene-d8	46.9		97.0	80-125	"	"
4-Bromofluorobenzene	40.9		84.6	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.8	1	04/18/17	04/18/17
Chloromethane (74-87-3)	U		4.8	"	"	"
Vinyl chloride (75-01-4)	U		4.8	"	"	"
Bromomethane (74-83-9)	U		4.8	"	"	"
Chloroethane (75-00-3)	U		4.8	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.8	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.8	"	"	"
Carbon disulfide (75-15-0)	U		4.8	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.8	"	"	"
Acetone (67-64-1)	U		9.7	"	"	"
Methylene chloride (75-09-2)	U		4.8	"	"	"
Methyl acetate (79-20-9)	U		4.8	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.8	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.8	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.8	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.8	"	"	"
2-Butanone (78-93-3)	U		4.8	"	"	"
Chloroform (67-66-3)	U		4.8	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.8	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.8	"	"	"
Cyclohexane (110-82-7)	U		4.8	"	"	"
Carbon tetrachloride (56-23-5)	U		4.8	"	"	"
Benzene (71-43-2)	U		4.8	"	"	"
Trichloroethene (79-01-6)	U		4.8	"	"	"
Methylcyclohexane (108-87-2)	U		4.8	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.8	"	"	"
Bromodichloromethane (75-27-4)	U		4.8	"	"	"



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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704016-04**Station ID:** LPA-SB-21-6.0

Batch: B7D1808

Date Collected: 04/17/17

Sample Type: Solid

Sample Wt: 6.198g

Sample Qualifiers:

%Solids: 83.43

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.8	1	04/18/17	04/18/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.8	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.8	"	"	"
Dibromochloromethane (124-48-1)	U		4.8	"	"	"
Bromoform (75-25-2)	U		4.8	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.8	"	"	"
Toluene (108-88-3)	U		4.8	"	"	"
Tetrachloroethene (127-18-4)	U		4.8	"	"	"
2-Hexanone (591-78-6)	U		4.8	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.8	"	"	"
Chlorobenzene (108-90-7)	U		4.8	"	"	"
Ethylbenzene (100-41-4)	U		4.8	"	"	"
meta-/para-Xylene (na)	U		9.7	"	"	"
ortho-Xylene (95-47-6)	U		4.8	"	"	"
Styrene (100-42-5)	U		4.8	"	"	"
Isopropylbenzene (98-82-8)	U		4.8	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.8	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.8	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.8	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.8	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.8	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.8	"	"	"



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-04

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-21-6.0

Date Collected: 04/17/17

Sample Wt: 0.546g

Sample Qualifiers:

%Solids: 83.43

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	5,430		11.0	1	04/19/17	05/02/17
Barium (7440-39-3)	57.3		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	2.9		0.5	"	"	"
Calcium (7440-70-2)	28,900		16.5	"	"	"
Chromium (7440-47-3)	9.0		1.1	"	"	"
Cobalt (7440-48-4)	3.5		2.2	"	"	"
Copper (7440-50-8)	9.5		2.2	"	"	"
Iron (7439-89-6)	10,300		2.7	"	"	"
Magnesium (7439-95-4)	1,440		16.5	"	"	"
Manganese (7439-96-5)	168		0.5	"	"	"
Nickel (7440-02-2)	10.9		2.2	"	"	"
Potassium (7440-09-7)	442		110	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	72.0		54.9	"	"	"
Vanadium (7440-62-2)	13.5		2.2	"	"	"
Zinc (7440-66-6)	397		2.2	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-04

Batch: B7D1906

Sample Type: Solid

Station ID: LPA-SB-21-6.0

Date Collected: 04/17/17

Sample Wt: 0.546g

%Solids: 83.43

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	<b>2.0</b>		0.5	"	"	"
Lead (7439-92-1)	<b>43.0</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	<b>0.6</b>		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-04

Batch: B7E0216

Sample Type: Solid

**Station ID:** LPA-SB-21-6.0

Date Collected: 04/17/17

Sample Wt: 0.139g

%Solids: 83.43

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.167		0.069	1	05/03/17	05/03/17



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704016-05

Station ID: LPA-SB-21-8.5

Batch: B7D1808

Date Collected: 04/17/17

Sample Type: Solid

Sample Wt: 6.346g

Sample Qualifiers:

%Solids: 89.84

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	43.3		98.8	78-122	04/18/17	04/18/17
Toluene-d8	43.8		99.9	80-125	"	"
4-Bromofluorobenzene	42.0		95.8	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.4	1	04/18/17	04/18/17
Chloromethane (74-87-3)	U		4.4	"	"	"
Vinyl chloride (75-01-4)	U		4.4	"	"	"
Bromomethane (74-83-9)	U		4.4	"	"	"
Chloroethane (75-00-3)	U		4.4	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.4	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.4	"	"	"
Carbon disulfide (75-15-0)	U		4.4	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.4	"	"	"
Acetone (67-64-1)	U		8.8	"	"	"
Methylene chloride (75-09-2)	U		4.4	"	"	"
Methyl acetate (79-20-9)	U		4.4	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.4	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.4	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.4	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.4	"	"	"
2-Butanone (78-93-3)	U		4.4	"	"	"
Chloroform (67-66-3)	U		4.4	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.4	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.4	"	"	"
Cyclohexane (110-82-7)	U		4.4	"	"	"
Carbon tetrachloride (56-23-5)	U		4.4	"	"	"
Benzene (71-43-2)	U		4.4	"	"	"
Trichloroethene (79-01-6)	U		4.4	"	"	"
Methylcyclohexane (108-87-2)	U		4.4	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.4	"	"	"
Bromodichloromethane (75-27-4)	U		4.4	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704016-05**Station ID:** LPA-SB-21-8.5

Batch: B7D1808

Date Collected: 04/17/17

Sample Type: Solid

Sample Wt: 6.346g

Sample Qualifiers:

%Solids: 89.84

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.4	1	04/18/17	04/18/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.4	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.4	"	"	"
Dibromochloromethane (124-48-1)	U		4.4	"	"	"
Bromoform (75-25-2)	U		4.4	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.4	"	"	"
Toluene (108-88-3)	U		4.4	"	"	"
Tetrachloroethene (127-18-4)	U		4.4	"	"	"
2-Hexanone (591-78-6)	U		4.4	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.4	"	"	"
Chlorobenzene (108-90-7)	U		4.4	"	"	"
Ethylbenzene (100-41-4)	U		4.4	"	"	"
meta-/para-Xylene (na)	U		8.8	"	"	"
ortho-Xylene (95-47-6)	U		4.4	"	"	"
Styrene (100-42-5)	U		4.4	"	"	"
Isopropylbenzene (98-82-8)	U		4.4	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.4	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.4	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.4	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.4	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.4	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.4	"	"	"



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-05

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-21-8.5

Date Collected: 04/17/17

Sample Wt: 0.561g

%Solids: 89.84

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	3,790		9.9	1	04/19/17	05/02/17
Barium (7440-39-3)	29.3		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.6		0.5	"	"	"
Calcium (7440-70-2)	735		14.9	"	"	"
Chromium (7440-47-3)	6.1		1.0	"	"	"
Cobalt (7440-48-4)	2.3		2.0	"	"	"
Copper (7440-50-8)	3.6		2.0	"	"	"
Iron (7439-89-6)	6,500		2.5	"	"	"
Magnesium (7439-95-4)	508		14.9	"	"	"
Manganese (7439-96-5)	32.1		0.5	"	"	"
Nickel (7440-02-2)	5.2		2.0	"	"	"
Potassium (7440-09-7)	485		99.2	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		49.6	"	"	"
Vanadium (7440-62-2)	11.7		2.0	"	"	"
Zinc (7440-66-6)	12.3	B	2.0	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704016-05

Batch: B7D1906

Sample Type: Solid

**Station ID:** LPA-SB-21-8.5

Date Collected: 04/17/17

Sample Wt: 0.561g

%Solids: 89.84

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	1.3		0.5	"	"	"
Lead (7439-92-1)	4.3		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-05

Batch: B7E0216

Sample Type: Solid

**Station ID:** LPA-SB-21-8.5

Date Collected: 04/17/17

Sample Wt: 0.139g

%Solids: 89.84

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.064	1	05/03/17	05/03/17



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-06

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-24-0.5

Date Collected: 04/17/17

Sample Wt: 0.545g

%Solids: 86.31

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	910		10.6	1	04/19/17	05/02/17
Barium (7440-39-3)	27.1		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	718		15.9	"	"	"
Chromium (7440-47-3)	2.3		1.1	"	"	"
Cobalt (7440-48-4)	U		2.1	"	"	"
Copper (7440-50-8)	2.4		2.1	"	"	"
Iron (7439-89-6)	2,500		2.7	"	"	"
Magnesium (7439-95-4)	202		15.9	"	"	"
Manganese (7439-96-5)	160		0.5	"	"	"
Nickel (7440-02-2)	2.3		2.1	"	"	"
Potassium (7440-09-7)	211		106	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		53.1	"	"	"
Vanadium (7440-62-2)	4.2		2.1	"	"	"
Zinc (7440-66-6)	15.0	B	2.1	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704016-06

Batch: B7D1906

Sample Type: Solid

**Station ID:** LPA-SB-24-0.5

Date Collected: 04/17/17

Sample Wt: 0.545g

%Solids: 86.31

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	0.7		0.5	"	"	"
Lead (7439-92-1)	9.9		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-06

Batch: B7E0216

Sample Type: Solid

**Station ID:** LPA-SB-24-0.5

Date Collected: 04/17/17

Sample Wt: 0.136g

%Solids: 86.31

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.068	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-07

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-24-10.0

Date Collected: 04/17/17

Sample Wt: 0.524g

Sample Qualifiers:

%Solids: 91.53

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	6,240		10.4	1	04/19/17	05/02/17
Barium (7440-39-3)	81.1		1.0	"	"	"
Beryllium (7440-41-7)	0.6		0.5	"	"	"
Cadmium (7440-43-9)	1.0		0.5	"	"	"
Calcium (7440-70-2)	1,730		15.6	"	"	"
Chromium (7440-47-3)	10.7		1.0	"	"	"
Cobalt (7440-48-4)	5.8		2.1	"	"	"
Copper (7440-50-8)	7.3		2.1	"	"	"
Iron (7439-89-6)	12,700		2.6	"	"	"
Magnesium (7439-95-4)	1,370		15.6	"	"	"
Manganese (7439-96-5)	116		0.5	"	"	"
Nickel (7440-02-2)	13.1		2.1	"	"	"
Potassium (7440-09-7)	569		104	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	109		52.1	"	"	"
Vanadium (7440-62-2)	22.1		2.1	"	"	"
Zinc (7440-66-6)	17.0	B	2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-07

Batch: B7D1906

Sample Type: Solid

Date Collected: 04/17/17

Sample Wt: 0.524g

%Solids: 91.53

Station ID: LPA-SB-24-10.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	1.6		0.5	"	"	"
Lead (7439-92-1)	4.9		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704016-07

Batch: B7E0216

Sample Type: Solid

Station ID: LPA-SB-24-10.0

Date Collected: 04/17/17

Sample Wt: 0.14g

%Solids: 91.53

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.062	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-08**Station ID:** LPA-SB-24-10.0-D

Batch: B7D1905

Date Collected: 04/17/17

Sample Type: Solid

Sample Wt: 0.526g

Sample Qualifiers:

%Solids: 91.79

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	5,790		10.4	1	04/19/17	05/02/17
Barium (7440-39-3)	88.9		1.0	"	"	"
Beryllium (7440-41-7)	0.6		0.5	"	"	"
Cadmium (7440-43-9)	1.0		0.5	"	"	"
Calcium (7440-70-2)	1,610		15.5	"	"	"
Chromium (7440-47-3)	10.3		1.0	"	"	"
Cobalt (7440-48-4)	6.5		2.1	"	"	"
Copper (7440-50-8)	6.4		2.1	"	"	"
Iron (7439-89-6)	11,800		2.6	"	"	"
Magnesium (7439-95-4)	1,240		15.5	"	"	"
Manganese (7439-96-5)	144		0.5	"	"	"
Nickel (7440-02-2)	12.2		2.1	"	"	"
Potassium (7440-09-7)	528		104	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	110		51.8	"	"	"
Vanadium (7440-62-2)	20.8		2.1	"	"	"
Zinc (7440-66-6)	16.4	B	2.1	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704016-08

Batch: B7D1906

Sample Type: Solid

**Station ID:** LPA-SB-24-10.0-D

Date Collected: 04/17/17

Sample Wt: 0.526g

%Solids: 91.79

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	1.6		0.5	"	"	"
Lead (7439-92-1)	4.9		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-08

Batch: B7E0216

Sample Type: Solid

**Station ID:** LPA-SB-24-10.0-D

Date Collected: 04/17/17

Sample Wt: 0.145g

%Solids: 91.79

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.060	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-09

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-24-2.0

Date Collected: 04/17/17

Sample Wt: 0.541g

%Solids: 86.91

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,080		10.6	1	04/19/17	05/02/17
Barium (7440-39-3)	24.1		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	432		16.0	"	"	"
Chromium (7440-47-3)	2.5		1.1	"	"	"
Cobalt (7440-48-4)	2.1		2.1	"	"	"
Copper (7440-50-8)	U		2.1	"	"	"
Iron (7439-89-6)	2,640		2.7	"	"	"
Magnesium (7439-95-4)	206		16.0	"	"	"
Manganese (7439-96-5)	144		0.5	"	"	"
Nickel (7440-02-2)	2.7		2.1	"	"	"
Potassium (7440-09-7)	222		106	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		53.2	"	"	"
Vanadium (7440-62-2)	4.9		2.1	"	"	"
Zinc (7440-66-6)	9.1	B	2.1	"	"	"



Environmental Protection Agency

## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-09

Batch: B7D1906

Sample Type: Solid

Station ID: LPA-SB-24-2.0

Date Collected: 04/17/17

Sample Wt: 0.541g

%Solids: 86.91

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	<b>0.6</b>		0.5	"	"	"
Lead (7439-92-1)	<b>4.8</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-09

Batch: B7E0216

Sample Type: Solid

**Station ID:** LPA-SB-24-2.0

Date Collected: 04/17/17

Sample Wt: 0.139g

%Solids: 86.91

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.066	1	05/03/17	05/03/17



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-10

Batch: B7D1905

Sample Type: Solid

Date Collected: 04/17/17

Sample Wt: 0.554g

%Solids: 83.95

**Station ID:** LPA-SB-24-20.0

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	<b>2,090</b>		10.8	1	04/19/17	05/02/17
Barium (7440-39-3)	<b>18.0</b>		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	<b>460</b>		16.1	"	"	"
Chromium (7440-47-3)	<b>4.9</b>		1.1	"	"	"
Cobalt (7440-48-4)	U		2.2	"	"	"
Copper (7440-50-8)	U		2.2	"	"	"
Iron (7439-89-6)	<b>3,040</b>		2.7	"	"	"
Magnesium (7439-95-4)	<b>439</b>		16.1	"	"	"
Manganese (7439-96-5)	<b>11.1</b>		0.5	"	"	"
Nickel (7440-02-2)	<b>3.1</b>		2.2	"	"	"
Potassium (7440-09-7)	<b>288</b>		108	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		53.8	"	"	"
Vanadium (7440-62-2)	<b>6.7</b>		2.2	"	"	"
Zinc (7440-66-6)	<b>5.9</b>	<b>B</b>	2.2	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-10

Batch: B7D1906

Sample Type: Solid

Date Collected: 04/17/17

Sample Wt: 0.554g

%Solids: 83.95

Station ID: LPA-SB-24-20.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	U		0.5	"	"	"
<b>Lead (7439-92-1)</b>	<b>2.2</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-10

Batch: B7E0216

Sample Type: Solid

Date Collected: 04/17/17

Sample Wt: 0.162g

%Solids: 83.95

**Station ID:** LPA-SB-24-20.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.059	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-11

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-24-6.0

Date Collected: 04/17/17

Sample Wt: 0.53g

%Solids: 90.65

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	<b>5,010</b>		10.4	1	04/19/17	05/02/17
Barium (7440-39-3)	<b>63.1</b>		1.0	"	"	"
Beryllium (7440-41-7)	<b>0.5</b>		0.5	"	"	"
Cadmium (7440-43-9)	<b>0.8</b>		0.5	"	"	"
Calcium (7440-70-2)	<b>1,120</b>		15.6	"	"	"
Chromium (7440-47-3)	<b>8.7</b>		1.0	"	"	"
Cobalt (7440-48-4)	<b>5.8</b>		2.1	"	"	"
Copper (7440-50-8)	<b>5.1</b>		2.1	"	"	"
Iron (7439-89-6)	<b>9,800</b>		2.6	"	"	"
Magnesium (7439-95-4)	<b>882</b>		15.6	"	"	"
Manganese (7439-96-5)	<b>137</b>		0.5	"	"	"
Nickel (7440-02-2)	<b>8.3</b>		2.1	"	"	"
Potassium (7440-09-7)	<b>532</b>		104	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		52.0	"	"	"
Vanadium (7440-62-2)	<b>16.2</b>		2.1	"	"	"
Zinc (7440-66-6)	<b>11.9</b>	<b>B</b>	2.1	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704016-11

Batch: B7D1906

Sample Type: Solid

**Station ID:** LPA-SB-24-6.0

Date Collected: 04/17/17

Sample Wt: 0.53g

%Solids: 90.65

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	1.2		0.5	"	"	"
Lead (7439-92-1)	4.2		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-11

Batch: B7E0216

Sample Type: Solid

**Station ID:** LPA-SB-24-6.0

Date Collected: 04/17/17

Sample Wt: 0.137g

%Solids: 90.65

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.064	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-12

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-29-0.5

Date Collected: 04/17/17

Sample Wt: 0.548g

Sample Qualifiers:

%Solids: 83.18

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,350		11.0	1	04/19/17	05/02/17
Barium (7440-39-3)	34.8		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	993		16.5	"	"	"
Chromium (7440-47-3)	2.9		1.1	"	"	"
Cobalt (7440-48-4)	2.2		2.2	"	"	"
Copper (7440-50-8)	38.7		2.2	"	"	"
Iron (7439-89-6)	2,810		2.7	"	"	"
Magnesium (7439-95-4)	252		16.5	"	"	"
Manganese (7439-96-5)	61.0		0.5	"	"	"
Nickel (7440-02-2)	2.4		2.2	"	"	"
Potassium (7440-09-7)	307		110	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		54.8	"	"	"
Vanadium (7440-62-2)	4.8		2.2	"	"	"
Zinc (7440-66-6)	25.3	B	2.2	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704016-12

Batch: B7D1906

Sample Type: Solid

**Station ID:** LPA-SB-29-0.5

Date Collected: 04/17/17

Sample Wt: 0.548g

%Solids: 83.18

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	<b>0.6</b>		0.5	"	"	"
Lead (7439-92-1)	<b>25.3</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704016-12

Batch: B7E0216

Sample Type: Solid

Station ID: LPA-SB-29-0.5

Date Collected: 04/17/17

Sample Wt: 0.157g

%Solids: 83.18

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.061	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-13

Batch: B7D1905

Sample Type: Solid

Date Collected: 04/17/17

Sample Wt: 0.518g

%Solids: 94.54

**Station ID:** LPA-SB-29-10.0

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,990		10.2	1	04/19/17	05/02/17
Barium (7440-39-3)	35.3		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.5		0.5	"	"	"
Calcium (7440-70-2)	613		15.3	"	"	"
Chromium (7440-47-3)	6.7		1.0	"	"	"
Cobalt (7440-48-4)	3.2		2.0	"	"	"
Copper (7440-50-8)	3.0		2.0	"	"	"
Iron (7439-89-6)	5,530		2.6	"	"	"
Magnesium (7439-95-4)	483		15.3	"	"	"
Manganese (7439-96-5)	34.4		0.5	"	"	"
Nickel (7440-02-2)	4.5		2.0	"	"	"
Potassium (7440-09-7)	478		102	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		51.0	"	"	"
Vanadium (7440-62-2)	9.6		2.0	"	"	"
Zinc (7440-66-6)	7.2	B	2.0	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-13

Batch: B7D1906

Sample Type: Solid

Date Collected: 04/17/17

Sample Wt: 0.518g

%Solids: 94.54

Station ID: LPA-SB-29-10.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	1.1		0.5	"	"	"
Lead (7439-92-1)	3.2		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704016-13

Batch: B7E0216

Sample Type: Solid

Station ID: LPA-SB-29-10.0

Date Collected: 04/17/17

Sample Wt: 0.13g

%Solids: 94.54

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.065	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-14

Batch: B7D1905

Sample Type: Solid

Date Collected: 04/17/17

Sample Wt: 0.533g

%Solids: 86.17

**Station ID:** LPA-SB-29-16.5

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,340		10.9	1	04/19/17	05/02/17
Barium (7440-39-3)	22.3		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	500		16.3	"	"	"
Chromium (7440-47-3)	5.4		1.1	"	"	"
Cobalt (7440-48-4)	2.8		2.2	"	"	"
Copper (7440-50-8)	U		2.2	"	"	"
Iron (7439-89-6)	3,230		2.7	"	"	"
Magnesium (7439-95-4)	361		16.3	"	"	"
Manganese (7439-96-5)	84.4		0.5	"	"	"
Nickel (7440-02-2)	3.9		2.2	"	"	"
Potassium (7440-09-7)	298		109	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		54.4	"	"	"
Vanadium (7440-62-2)	5.7		2.2	"	"	"
Zinc (7440-66-6)	5.4	B	2.2	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-14

Batch: B7D1906

Sample Type: Solid

Date Collected: 04/17/17

Sample Wt: 0.533g

%Solids: 86.17

Station ID: LPA-SB-29-16.5

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	<b>0.8</b>		0.5	"	"	"
Lead (7439-92-1)	<b>1.9</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704016-14

Batch: B7E0216

Sample Type: Solid

Station ID: LPA-SB-29-16.5

Date Collected: 04/17/17

Sample Wt: 0.136g

%Solids: 86.17

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.068	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-15

Batch: B7D1905

Sample Type: Solid

**Station ID:** LPA-SB-29-2.0

Date Collected: 04/17/17

Sample Wt: 0.559g

%Solids: 87.96

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,710		10.2	1	04/19/17	05/02/17
Barium (7440-39-3)	31.1		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	419		15.3	"	"	"
Chromium (7440-47-3)	3.2		1.0	"	"	"
Cobalt (7440-48-4)	2.7		2.0	"	"	"
Copper (7440-50-8)	2.7		2.0	"	"	"
Iron (7439-89-6)	3,110		2.5	"	"	"
Magnesium (7439-95-4)	269		15.3	"	"	"
Manganese (7439-96-5)	107		0.5	"	"	"
Nickel (7440-02-2)	3.4		2.0	"	"	"
Potassium (7440-09-7)	334		102	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		50.8	"	"	"
Vanadium (7440-62-2)	6.4		2.0	"	"	"
Zinc (7440-66-6)	10.4	B	2.0	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-15

Batch: B7D1906

Sample Type: Solid

Station ID: LPA-SB-29-2.0

Date Collected: 04/17/17

Sample Wt: 0.559g

%Solids: 87.96

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	<b>0.6</b>		0.5	"	"	"
Lead (7439-92-1)	<b>5.4</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-15

Batch: B7E0216

Sample Type: Solid

**Station ID:** LPA-SB-29-2.0

Date Collected: 04/17/17

Sample Wt: 0.134g

%Solids: 87.96

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.068	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-16**Station ID:** LPA-SB-29-6.0

Batch: B7D1905

Date Collected: 04/17/17

Sample Type: Solid

Sample Wt: 0.558g

Sample Qualifiers:

%Solids: 87.28

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	<b>5,040</b>		10.3	1	04/19/17	05/02/17
Barium (7440-39-3)	<b>50.6</b>		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	<b>0.6</b>		0.5	"	"	"
Calcium (7440-70-2)	<b>884</b>		15.4	"	"	"
Chromium (7440-47-3)	<b>8.1</b>		1.0	"	"	"
Cobalt (7440-48-4)	<b>5.5</b>		2.1	"	"	"
Copper (7440-50-8)	<b>4.6</b>		2.1	"	"	"
Iron (7439-89-6)	<b>8,140</b>		2.6	"	"	"
Magnesium (7439-95-4)	<b>622</b>		15.4	"	"	"
Manganese (7439-96-5)	<b>193</b>		0.5	"	"	"
Nickel (7440-02-2)	<b>6.5</b>		2.1	"	"	"
Potassium (7440-09-7)	<b>721</b>		103	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		51.3	"	"	"
Vanadium (7440-62-2)	<b>14.6</b>		2.1	"	"	"
Zinc (7440-66-6)	<b>10.2</b>	<b>B</b>	2.1	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704016-16

Batch: B7D1906

Sample Type: Solid

**Station ID:** LPA-SB-29-6.0

Date Collected: 04/17/17

Sample Wt: 0.558g

%Solids: 87.28

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	1.2		0.5	"	"	"
Lead (7439-92-1)	4.6		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-16

Batch: B7E0216

Sample Type: Solid

**Station ID:** LPA-SB-29-6.0

Date Collected: 04/17/17

Sample Wt: 0.131g

%Solids: 87.28

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.070	1	05/03/17	05/03/17



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-17

Batch: B7D1905

Sample Type: Solid

**Station ID:** WPA-SB-01-0.5

Date Collected: 04/17/17

Sample Wt: 0.531g

Sample Qualifiers:

%Solids: 92.14

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,530		10.2	1	04/19/17	05/02/17
Barium (7440-39-3)	25.3		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.9		0.5	"	"	"
Calcium (7440-70-2)	72,100		15.3	"	"	"
Chromium (7440-47-3)	3.5		1.0	"	"	"
Cobalt (7440-48-4)	2.0		2.0	"	"	"
Copper (7440-50-8)	10.8		2.0	"	"	"
Iron (7439-89-6)	7,430		2.6	"	"	"
Magnesium (7439-95-4)	33,000		15.3	"	"	"
Manganese (7439-96-5)	1,080		0.5	"	"	"
Nickel (7440-02-2)	4.8		2.0	"	"	"
Potassium (7440-09-7)	246		102	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	75.6		51.1	"	"	"
Vanadium (7440-62-2)	6.3		2.0	"	"	"
Zinc (7440-66-6)	126		2.0	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-17

Batch: B7D1906

Sample Type: Solid

Date Collected: 04/17/17

Sample Wt: 0.531g

%Solids: 92.14

Station ID: WPA-SB-01-0.5

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	4.4		0.5	"	"	"
Lead (7439-92-1)	63.9		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704016-17

Batch: B7E0216

Sample Type: Solid

Station ID: WPA-SB-01-0.5

Date Collected: 04/17/17

Sample Wt: 0.131g

%Solids: 92.14

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.066	1	05/03/17	05/03/17



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704016-18

Batch: B7D1808

Sample Type: Solid

Station ID: WPA-SB-01-2.0

Date Collected: 04/17/17

Sample Wt: 6.26g

%Solids: 91.14

Sample Qualifiers:

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	40.8		93.2	78-122	04/18/17	04/18/17
Toluene-d8	43.0		98.2	80-125	"	"
4-Bromofluorobenzene	39.6		90.5	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.4	1	04/18/17	04/18/17
Chloromethane (74-87-3)	U		4.4	"	"	"
Vinyl chloride (75-01-4)	U		4.4	"	"	"
Bromomethane (74-83-9)	U		4.4	"	"	"
Chloroethane (75-00-3)	U		4.4	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.4	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.4	"	"	"
Carbon disulfide (75-15-0)	U		4.4	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.4	"	"	"
<b>Acetone (67-64-1)</b>	<b>25.9</b>	<b>B</b>	8.8	"	"	"
Methylene chloride (75-09-2)	U		4.4	"	"	"
Methyl acetate (79-20-9)	U		4.4	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.4	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.4	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.4	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.4	"	"	"
2-Butanone (78-93-3)	U		4.4	"	"	"
Chloroform (67-66-3)	U		4.4	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.4	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.4	"	"	"
Cyclohexane (110-82-7)	U		4.4	"	"	"
Carbon tetrachloride (56-23-5)	U		4.4	"	"	"
Benzene (71-43-2)	U		4.4	"	"	"
Trichloroethene (79-01-6)	U		4.4	"	"	"
Methylcyclohexane (108-87-2)	U		4.4	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.4	"	"	"
Bromodichloromethane (75-27-4)	U		4.4	"	"	"



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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704016-18

Batch: B7D1808

Sample Type: Solid

**Station ID:** WPA-SB-01-2.0

Date Collected: 04/17/17

Sample Wt: 6.26g

%Solids: 91.14

Sample Qualifiers:

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.4	1	04/18/17	04/18/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.4	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.4	"	"	"
Dibromochloromethane (124-48-1)	U		4.4	"	"	"
Bromoform (75-25-2)	U		4.4	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.4	"	"	"
Toluene (108-88-3)	U		4.4	"	"	"
Tetrachloroethene (127-18-4)	U		4.4	"	"	"
2-Hexanone (591-78-6)	U		4.4	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.4	"	"	"
Chlorobenzene (108-90-7)	U		4.4	"	"	"
Ethylbenzene (100-41-4)	U		4.4	"	"	"
meta-/para-Xylene (na)	U		8.8	"	"	"
ortho-Xylene (95-47-6)	U		4.4	"	"	"
Styrene (100-42-5)	U		4.4	"	"	"
Isopropylbenzene (98-82-8)	U		4.4	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.4	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.4	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.4	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.4	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.4	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.4	"	"	"



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704016-18

Batch: B7D1905

Sample Type: Solid

**Station ID:** WPA-SB-01-2.0

Date Collected: 04/17/17

Sample Wt: 0.521g

Sample Qualifiers:

%Solids: 91.14

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,970		10.5	1	04/19/17	05/02/17
Barium (7440-39-3)	32.5		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.9		0.5	"	"	"
Calcium (7440-70-2)	3,870		15.8	"	"	"
Chromium (7440-47-3)	3.8		1.1	"	"	"
Cobalt (7440-48-4)	U		2.1	"	"	"
Copper (7440-50-8)	4.9		2.1	"	"	"
Iron (7439-89-6)	10,500		2.6	"	"	"
Magnesium (7439-95-4)	362		15.8	"	"	"
Manganese (7439-96-5)	95.3	J	0.5	"	"	"
Nickel (7440-02-2)	3.0		2.1	"	"	"
Potassium (7440-09-7)	216		105	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		52.7	"	"	"
Vanadium (7440-62-2)	12.6		2.1	"	"	"
Zinc (7440-66-6)	8.9	B	2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704016-18

Batch: B7D1906

Sample Type: Solid

Station ID: WPA-SB-01-2.0

Date Collected: 04/17/17

Sample Wt: 0.521g

%Solids: 91.14

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U	UJ	0.5	10	04/19/17	05/05/17
Arsenic (7440-38-2)	1.9		0.5	"	"	"
Lead (7439-92-1)	3.9		0.5	"	"	"
Selenium (7782-49-2)	U	UJ	1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704016-18

Batch: B7E0216

Sample Type: Solid

**Station ID:** WPA-SB-01-2.0

Date Collected: 04/17/17

Sample Wt: 0.137g

%Solids: 91.14

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.064	1	05/03/17	05/03/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-01**Station ID:** LPA-SB-22-0.5

Batch: B7D2005

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.565g

Sample Qualifiers:

%Solids: 80.95

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,650		10.9	1	04/26/17	05/09/17
Barium (7440-39-3)	49.6		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.6		0.5	"	"	"
Calcium (7440-70-2)	1,130		16.4	"	"	"
Chromium (7440-47-3)	3.7		1.1	"	"	"
Cobalt (7440-48-4)	2.4		2.2	"	"	"
Copper (7440-50-8)	12.5	B	2.2	"	"	"
Iron (7439-89-6)	4,440		2.7	"	"	"
Magnesium (7439-95-4)	312		16.4	"	"	"
Manganese (7439-96-5)	198		0.5	"	"	"
Nickel (7440-02-2)	3.9		2.2	"	"	"
Potassium (7440-09-7)	347		109	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		54.7	"	"	"
Vanadium (7440-62-2)	7.9		2.2	"	"	"
Zinc (7440-66-6)	22.9	B	2.2	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-01

Batch: B7D2006

Sample Type: Solid

**Station ID:** LPA-SB-22-0.5

Date Collected: 04/18/17

Sample Wt: 0.565g

%Solids: 80.95

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	<b>0.9</b>		0.5	"	"	"
Lead (7439-92-1)	<b>24.1</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-01

Batch: B7E0806

Sample Type: Solid

Station ID: LPA-SB-22-0.5

Date Collected: 04/18/17

Sample Wt: 0.144g

%Solids: 80.95

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.069	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-02

Batch: B7D2005

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.553g

%Solids: 87.58

**Station ID:** LPA-SB-22-10.0

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	7,180		10.3	1	04/26/17	05/09/17
Barium (7440-39-3)	191		1.0	"	"	"
Beryllium (7440-41-7)	0.8		0.5	"	"	"
Cadmium (7440-43-9)	1.3		0.5	"	"	"
Calcium (7440-70-2)	2,110		15.5	"	"	"
Chromium (7440-47-3)	13.9		1.0	"	"	"
Cobalt (7440-48-4)	9.5		2.1	"	"	"
Copper (7440-50-8)	8.0	B	2.1	"	"	"
Iron (7439-89-6)	15,600		2.6	"	"	"
Magnesium (7439-95-4)	1,870		15.5	"	"	"
Manganese (7439-96-5)	611		0.5	"	"	"
Nickel (7440-02-2)	19.4		2.1	"	"	"
Potassium (7440-09-7)	762		103	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	148		51.6	"	"	"
Vanadium (7440-62-2)	21.7		2.1	"	"	"
Zinc (7440-66-6)	22.6	B	2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-02

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.553g

%Solids: 87.58

Station ID: LPA-SB-22-10.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	3.3		0.5	"	"	"
Lead (7439-92-1)	2.7		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-02

Batch: B7E0806

Sample Type: Solid

Station ID: LPA-SB-22-10.0

Date Collected: 04/18/17

Sample Wt: 0.145g

%Solids: 87.58

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.063	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-03

Batch: B7D2005

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.562g

%Solids: 81.88

**Station ID:** LPA-SB-22-18.0

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,750		10.9	1	04/26/17	05/09/17
Barium (7440-39-3)	13.2		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	419		16.3	"	"	"
Chromium (7440-47-3)	4.8		1.1	"	"	"
Cobalt (7440-48-4)	U		2.2	"	"	"
Copper (7440-50-8)	2.6	B	2.2	"	"	"
Iron (7439-89-6)	2,580		2.7	"	"	"
Magnesium (7439-95-4)	324		16.3	"	"	"
Manganese (7439-96-5)	30.9		0.5	"	"	"
Nickel (7440-02-2)	3.0		2.2	"	"	"
Potassium (7440-09-7)	251		109	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		54.3	"	"	"
Vanadium (7440-62-2)	7.6		2.2	"	"	"
Zinc (7440-66-6)	5.9	B	2.2	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-03

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.562g

%Solids: 81.88

Station ID: LPA-SB-22-18.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	U		0.5	"	"	"
Lead (7439-92-1)	U		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-03

Batch: B7E0806

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.159g

%Solids: 81.88

Station ID: LPA-SB-22-18.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.061	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

Lab ID: 1704017-04

Station ID: LPA-SB-22-2.0

Batch: B7D2005

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.558g

Sample Qualifiers:

%Solids: 85.03

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	4,160		10.5	1	04/26/17	05/09/17
Barium (7440-39-3)	63.4		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.6		0.5	"	"	"
Calcium (7440-70-2)	1,060		15.8	"	"	"
Chromium (7440-47-3)	7.6		1.1	"	"	"
Cobalt (7440-48-4)	3.5		2.1	"	"	"
Copper (7440-50-8)	6.3	B	2.1	"	"	"
Iron (7439-89-6)	8,220		2.6	"	"	"
Magnesium (7439-95-4)	763		15.8	"	"	"
Manganese (7439-96-5)	103	J	0.5	"	"	"
Nickel (7440-02-2)	5.8		2.1	"	"	"
Potassium (7440-09-7)	655		105	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		52.7	"	"	"
Vanadium (7440-62-2)	17.1		2.1	"	"	"
Zinc (7440-66-6)	13.3	B	2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-04

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.558g

%Solids: 85.03

**Station ID:** LPA-SB-22-2.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U	UJ	0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	1.5		0.5	"	"	"
Lead (7439-92-1)	0.5		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704017-04

Batch: B7E0806

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.14g

%Solids: 85.03

**Station ID:** LPA-SB-22-2.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.067	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-05

Batch: B7D2005

Sample Type: Solid

**Station ID:** LPA-SB-22-6.0

Date Collected: 04/18/17

Sample Wt: 0.554g

Sample Qualifiers:

%Solids: 89.57

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	7,310		10.1	1	04/26/17	05/09/17
Barium (7440-39-3)	68.7		1.0	"	"	"
Beryllium (7440-41-7)	0.6		0.5	"	"	"
Cadmium (7440-43-9)	0.8		0.5	"	"	"
Calcium (7440-70-2)	1,750		15.1	"	"	"
Chromium (7440-47-3)	11.7		1.0	"	"	"
Cobalt (7440-48-4)	4.7		2.0	"	"	"
Copper (7440-50-8)	8.2	B	2.0	"	"	"
Iron (7439-89-6)	11,100		2.5	"	"	"
Magnesium (7439-95-4)	1,470		15.1	"	"	"
Manganese (7439-96-5)	56.3		0.5	"	"	"
Nickel (7440-02-2)	10.9		2.0	"	"	"
Potassium (7440-09-7)	837		101	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	56.3		50.4	"	"	"
Vanadium (7440-62-2)	19.2		2.0	"	"	"
Zinc (7440-66-6)	18.6	B	2.0	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-05

Batch: B7D2006

Sample Type: Solid

Station ID: LPA-SB-22-6.0

Date Collected: 04/18/17

Sample Wt: 0.554g

%Solids: 89.57

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	<b>2.0</b>		0.5	"	"	"
Lead (7439-92-1)	U		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-05

Batch: B7E0806

Sample Type: Solid

Station ID: LPA-SB-22-6.0

Date Collected: 04/18/17

Sample Wt: 0.15g

%Solids: 89.57

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.060	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-06

Batch: B7D2005

Sample Type: Solid

**Station ID:** LPA-SB-25-0.5

Date Collected: 04/18/17

Sample Wt: 0.566g

Sample Qualifiers:

%Solids: 80.00

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,820		11.0	1	04/26/17	05/09/17
Barium (7440-39-3)	59.3		1.1	"	"	"
Beryllium (7440-41-7)	U		0.6	"	"	"
Cadmium (7440-43-9)	0.6		0.6	"	"	"
Calcium (7440-70-2)	3,200		16.6	"	"	"
Chromium (7440-47-3)	4.2		1.1	"	"	"
Cobalt (7440-48-4)	2.6		2.2	"	"	"
Copper (7440-50-8)	54.5		2.2	"	"	"
Iron (7439-89-6)	4,040		2.8	"	"	"
Magnesium (7439-95-4)	442		16.6	"	"	"
Manganese (7439-96-5)	259		0.6	"	"	"
Nickel (7440-02-2)	4.2		2.2	"	"	"
Potassium (7440-09-7)	469		110	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		55.2	"	"	"
Vanadium (7440-62-2)	6.7		2.2	"	"	"
Zinc (7440-66-6)	41.8	B	2.2	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-06

Batch: B7D2006

Sample Type: Solid

**Station ID:** LPA-SB-25-0.5

Date Collected: 04/18/17

Sample Wt: 0.566g

%Solids: 80.00

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.6	10	04/26/17	05/08/17
Arsenic (7440-38-2)	1.0		0.6	"	"	"
Lead (7439-92-1)	49.6		0.6	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704017-06

Batch: B7E0806

Sample Type: Solid

**Station ID:** LPA-SB-25-0.5

Date Collected: 04/18/17

Sample Wt: 0.149g

%Solids: 80.00

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.067	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-07

Batch: B7D2005

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.559g

%Solids: 90.78

**Station ID:** LPA-SB-25-10.0

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,740		9.9	1	04/26/17	05/09/17
Barium (7440-39-3)	22.6		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	511		14.8	"	"	"
Chromium (7440-47-3)	4.3		1.0	"	"	"
Cobalt (7440-48-4)	U		2.0	"	"	"
Copper (7440-50-8)	2.1	B	2.0	"	"	"
Iron (7439-89-6)	2,240		2.5	"	"	"
Magnesium (7439-95-4)	357		14.8	"	"	"
Manganese (7439-96-5)	18.6		0.5	"	"	"
Nickel (7440-02-2)	2.8		2.0	"	"	"
Potassium (7440-09-7)	218		98.5	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	53.5		49.3	"	"	"
Vanadium (7440-62-2)	5.3		2.0	"	"	"
Zinc (7440-66-6)	5.2	B	2.0	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-07

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.559g

%Solids: 90.78

Station ID: LPA-SB-25-10.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	U		0.5	"	"	"
Lead (7439-92-1)	U		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-07

Batch: B7E0806

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.13g

%Solids: 90.78

Station ID: LPA-SB-25-10.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.068	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-08

Batch: B7D2005

Sample Type: Solid

**Station ID:** LPA-SB-25-15.0

Date Collected: 04/18/17

Sample Wt: 0.536g

Sample Qualifiers:

%Solids: 84.45

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,730		11.0	1	04/26/17	05/09/17
Barium (7440-39-3)	10.6		1.1	"	"	"
Beryllium (7440-41-7)	U		0.6	"	"	"
Cadmium (7440-43-9)	U		0.6	"	"	"
Calcium (7440-70-2)	395		16.6	"	"	"
Chromium (7440-47-3)	3.6		1.1	"	"	"
Cobalt (7440-48-4)	U		2.2	"	"	"
Copper (7440-50-8)	2.5	B	2.2	"	"	"
Iron (7439-89-6)	2,080		2.8	"	"	"
Magnesium (7439-95-4)	363		16.6	"	"	"
Manganese (7439-96-5)	11.3		0.6	"	"	"
Nickel (7440-02-2)	2.7		2.2	"	"	"
Potassium (7440-09-7)	247		110	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		55.2	"	"	"
Vanadium (7440-62-2)	4.9		2.2	"	"	"
Zinc (7440-66-6)	5.3	B	2.2	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-08

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.536g

%Solids: 84.45

**Station ID:** LPA-SB-25-15.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.6	10	04/26/17	05/08/17
Arsenic (7440-38-2)	U		0.6	"	"	"
Lead (7439-92-1)	U		0.6	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-08

Batch: B7E0806

Sample Type: Solid

Station ID: LPA-SB-25-15.0

Date Collected: 04/18/17

Sample Wt: 0.15g

%Solids: 84.45

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.063	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-09

Batch: B7D2005

Sample Type: Solid

**Station ID:** LPA-SB-25-2.0

Date Collected: 04/18/17

Sample Wt: 0.552g

Sample Qualifiers:

%Solids: 84.49

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,660		10.7	1	04/26/17	05/09/17
Barium (7440-39-3)	39.7		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	3.3		0.5	"	"	"
Calcium (7440-70-2)	610		16.1	"	"	"
Chromium (7440-47-3)	8.9		1.1	"	"	"
Cobalt (7440-48-4)	3.4		2.1	"	"	"
Copper (7440-50-8)	12.1	B	2.1	"	"	"
Iron (7439-89-6)	15,900		2.7	"	"	"
Magnesium (7439-95-4)	281		16.1	"	"	"
Manganese (7439-96-5)	198		0.5	"	"	"
Nickel (7440-02-2)	4.5		2.1	"	"	"
Potassium (7440-09-7)	341		107	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		53.6	"	"	"
Vanadium (7440-62-2)	10.0		2.1	"	"	"
Zinc (7440-66-6)	303		2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-09

Batch: B7D2006

Sample Type: Solid

Station ID: LPA-SB-25-2.0

Date Collected: 04/18/17

Sample Wt: 0.552g

%Solids: 84.49

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	<b>2.6</b>		0.5	"	"	"
Lead (7439-92-1)	<b>44.3</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-09

Batch: B7E0806

Sample Type: Solid

Station ID: LPA-SB-25-2.0

Date Collected: 04/18/17

Sample Wt: 0.158g

%Solids: 84.49

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.060	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-10

Batch: B7D2005

Sample Type: Solid

**Station ID:** LPA-SB-25-6.0

Date Collected: 04/18/17

Sample Wt: 0.564g

Sample Qualifiers:

%Solids: 87.54

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	4,190		10.1	1	04/26/17	05/09/17
Barium (7440-39-3)	63.2		1.0	"	"	"
Beryllium (7440-41-7)	0.5		0.5	"	"	"
Cadmium (7440-43-9)	1.0		0.5	"	"	"
Calcium (7440-70-2)	1,070		15.2	"	"	"
Chromium (7440-47-3)	7.7		1.0	"	"	"
Cobalt (7440-48-4)	6.6		2.0	"	"	"
Copper (7440-50-8)	5.7	B	2.0	"	"	"
Iron (7439-89-6)	12,100		2.5	"	"	"
Magnesium (7439-95-4)	836		15.2	"	"	"
Manganese (7439-96-5)	214		0.5	"	"	"
Nickel (7440-02-2)	11.3		2.0	"	"	"
Potassium (7440-09-7)	578		101	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		50.6	"	"	"
Vanadium (7440-62-2)	19.7		2.0	"	"	"
Zinc (7440-66-6)	26.0	B	2.0	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-10

Batch: B7D2006

Sample Type: Solid

Station ID: LPA-SB-25-6.0

Date Collected: 04/18/17

Sample Wt: 0.564g

%Solids: 87.54

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	<b>4.0</b>		0.5	"	"	"
Lead (7439-92-1)	U		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

**Lab ID:** 1704017-10

Batch: B7E0806

Sample Type: Solid

**Station ID:** LPA-SB-25-6.0

Date Collected: 04/18/17

Sample Wt: 0.136g

%Solids: 87.54

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.067	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-11

Batch: B7D2005

Sample Type: Solid

**Station ID:** WPA-SB-02-0.5

Date Collected: 04/18/17

Sample Wt: 0.531g

Sample Qualifiers:

%Solids: 91.15

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,020		10.3	1	04/26/17	05/09/17
Barium (7440-39-3)	16.8		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	2.3		0.5	"	"	"
Calcium (7440-70-2)	7,520		15.5	"	"	"
Chromium (7440-47-3)	3.2		1.0	"	"	"
Cobalt (7440-48-4)	U		2.1	"	"	"
Copper (7440-50-8)	7.3	B	2.1	"	"	"
Iron (7439-89-6)	7,600		2.6	"	"	"
Magnesium (7439-95-4)	1,580		15.5	"	"	"
Manganese (7439-96-5)	154		0.5	"	"	"
Nickel (7440-02-2)	3.7		2.1	"	"	"
Potassium (7440-09-7)	199		103	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		51.7	"	"	"
Vanadium (7440-62-2)	5.6		2.1	"	"	"
Zinc (7440-66-6)	363		2.1	"	"	"



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## Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-11

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.531g

%Solids: 91.15

**Station ID:** WPA-SB-02-0.5

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	2.5		0.5	"	"	"
Lead (7439-92-1)	128		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-11

Batch: B7E0806

Sample Type: Solid

Station ID: WPA-SB-02-0.5

Date Collected: 04/18/17

Sample Wt: 0.134g

%Solids: 91.15

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.197		0.065	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-12**Station ID:** WPA-SB-02-10.0

Batch: B7D2005

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.548g

Sample Qualifiers:

%Solids: 85.52

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	5,250		10.7	1	04/26/17	05/09/17
Barium (7440-39-3)	33.8		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.6		0.5	"	"	"
Calcium (7440-70-2)	632		16.0	"	"	"
Chromium (7440-47-3)	8.4		1.1	"	"	"
Cobalt (7440-48-4)	2.6		2.1	"	"	"
Copper (7440-50-8)	6.4	B	2.1	"	"	"
Iron (7439-89-6)	8,320		2.7	"	"	"
Magnesium (7439-95-4)	477		16.0	"	"	"
Manganese (7439-96-5)	59.1	J	0.5	"	"	"
Nickel (7440-02-2)	4.1		2.1	"	"	"
Potassium (7440-09-7)	504		107	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		53.3	"	"	"
Vanadium (7440-62-2)	14.6		2.1	"	"	"
Zinc (7440-66-6)	26.8	B, J	2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-12

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.548g

%Solids: 85.52

**Station ID:** WPA-SB-02-10.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U	UJ	0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	1.8		0.5	"	"	"
Lead (7439-92-1)	2.9		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-12

Batch: B7E0806

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.147g

%Solids: 85.52

Station ID: WPA-SB-02-10.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.064	1	05/10/17	05/10/17



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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704017-12

Station ID: WPA-SB-02-10.0

Batch: B7F0902

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 5.808g

Sample Qualifiers:

%Solids: 85.52

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	55.7		111	85-117	04/28/17	04/28/17
Toluene-d8	50.5		100	87-106	"	"
4-Bromofluorobenzene	117		233 #	86-114	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		252	50	04/28/17	04/28/17
Chloromethane (74-87-3)	U		252	"	"	"
Vinyl chloride (75-01-4)	U		101	"	"	"
Bromomethane (74-83-9)	U		252	"	"	"
Chloroethane (75-00-3)	U	RL	302	"	"	"
Trichlorofluoromethane (75-69-4)	U	RL	403	"	"	"
1,1-Dichloroethene (75-35-4)	U	RL	503	"	"	"
Carbon disulfide (75-15-0)	U		101	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	RL	503	"	"	"
Acetone (67-64-1)	U		503	"	"	"
Methylene chloride (75-09-2)	U		101	"	"	"
Methyl acetate (79-20-9)	U		252	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		101	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		101	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		101	"	"	"
1,1-Dichloroethane (75-34-3)	U		101	"	"	"
2-Butanone (78-93-3)	U		252	"	"	"
Chloroform (67-66-3)	U		101	"	"	"
1,2-Dichloroethane (107-06-2)	U		101	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		101	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>17,000</b>		101	"	"	"
Carbon tetrachloride (56-23-5)	U		101	"	"	"
Benzene (71-43-2)	U		101	"	"	"
Trichloroethene (79-01-6)	U		101	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>95,400</b>		1,010	500	"	04/28/17
1,2-Dichloropropane (78-87-5)	U		101	50	"	04/28/17
Bromodichloromethane (75-27-4)	U		101	"	"	"



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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704017-12

Station ID: WPA-SB-02-10.0

Batch: B7F0902

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 5.808g

Sample Qualifiers:

%Solids: 85.52

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		101	50	04/28/17	04/28/17
trans-1,3-Dichloropropene (10061-02-6)	U		101	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		101	"	"	"
Dibromochloromethane (124-48-1)	U		101	"	"	"
Bromoform (75-25-2)	U		101	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		252	"	"	"
Toluene (108-88-3)	U		101	"	"	"
Tetrachloroethene (127-18-4)	U		101	"	"	"
2-Hexanone (591-78-6)	U		252	"	"	"
1,2-Dibromoethane (106-93-4)	U		101	"	"	"
Chlorobenzene (108-90-7)	U		101	"	"	"
Ethylbenzene (100-41-4)	U		101	"	"	"
meta-/para-Xylene (na)	U		201	"	"	"
ortho-Xylene (95-47-6)	U		101	"	"	"
Styrene (100-42-5)	U		101	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>6,640</b>		101	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		101	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		101	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		101	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		101	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		252	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		252	"	"	"



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-13

Station ID: WPA-SB-02-12.0

Batch: B7D1808

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 6.284g

Sample Qualifiers:

%Solids: 89.05

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	46.6		104	78-122	04/19/17	04/20/17
Toluene-d8	43.3		97.0	80-125	"	"
4-Bromofluorobenzene	36.4		81.4	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.5	1	04/19/17	04/20/17
Chloromethane (74-87-3)	U		4.5	"	"	"
Vinyl chloride (75-01-4)	U		4.5	"	"	"
Bromomethane (74-83-9)	U		4.5	"	"	"
Chloroethane (75-00-3)	U		4.5	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.5	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.5	"	"	"
Carbon disulfide (75-15-0)	U		4.5	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.5	"	"	"
<b>Acetone (67-64-1)</b>	<b>33.3</b>		8.9	"	"	"
Methylene chloride (75-09-2)	U		4.5	"	"	"
Methyl acetate (79-20-9)	U		4.5	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.5	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.5	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.5	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.5	"	"	"
2-Butanone (78-93-3)	U		4.5	"	"	"
Chloroform (67-66-3)	U		4.5	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.5	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.5	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>3,720</b>	<b>&gt;CR, J</b>	4.5	"	"	"
Carbon tetrachloride (56-23-5)	U		4.5	"	"	"
Benzene (71-43-2)	U		4.5	"	"	"
Trichloroethene (79-01-6)	U		4.5	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>5,860</b>	<b>&gt;CR, J</b>	4.5	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.5	"	"	"
Bromodichloromethane (75-27-4)	U		4.5	"	"	"



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-13

Station ID: WPA-SB-02-12.0

Batch: B7D1808

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 6.284g

Sample Qualifiers:

%Solids: 89.05

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.5	1	04/19/17	04/20/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.5	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.5	"	"	"
Dibromochloromethane (124-48-1)	U		4.5	"	"	"
Bromoform (75-25-2)	U		4.5	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.5	"	"	"
Toluene (108-88-3)	U		4.5	"	"	"
Tetrachloroethene (127-18-4)	U		4.5	"	"	"
2-Hexanone (591-78-6)	U		4.5	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.5	"	"	"
Chlorobenzene (108-90-7)	U		4.5	"	"	"
Ethylbenzene (100-41-4)	U		4.5	"	"	"
meta-/para-Xylene (na)	U		8.9	"	"	"
ortho-Xylene (95-47-6)	U		4.5	"	"	"
Styrene (100-42-5)	U		4.5	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>452</b>	<b>&gt;CR, J</b>	<b>4.5</b>	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.5	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.5	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.5	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.5	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.5	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.5	"	"	"



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-13

Batch: B7D2005

Sample Type: Solid

**Station ID:** WPA-SB-02-12.0

Date Collected: 04/18/17

Sample Wt: 0.536g

Sample Qualifiers:

%Solids: 89.05

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	<b>2,670</b>		10.5	1	04/26/17	05/09/17
Barium (7440-39-3)	<b>26.7</b>		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	<b>161</b>		15.7	"	"	"
Chromium (7440-47-3)	<b>3.9</b>		1.0	"	"	"
Cobalt (7440-48-4)	U		2.1	"	"	"
Copper (7440-50-8)	<b>3.7</b>	<b>B</b>	2.1	"	"	"
Iron (7439-89-6)	<b>5,440</b>		2.6	"	"	"
Magnesium (7439-95-4)	<b>325</b>		15.7	"	"	"
Manganese (7439-96-5)	<b>58.9</b>		0.5	"	"	"
Nickel (7440-02-2)	<b>2.4</b>		2.1	"	"	"
Potassium (7440-09-7)	<b>286</b>		105	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		52.4	"	"	"
Vanadium (7440-62-2)	<b>8.3</b>		2.1	"	"	"
Zinc (7440-66-6)	<b>4.6</b>	<b>B</b>	2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-13

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.536g

%Solids: 89.05

**Station ID:** WPA-SB-02-12.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
<b>Arsenic (7440-38-2)</b>	<b>1.3</b>		0.5	"	"	"
Lead (7439-92-1)	U		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-13

Station ID: WPA-SB-02-12.0

Batch: B7E0806

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.131g

Sample Qualifiers:

%Solids: 89.05

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.069	1	05/10/17	05/10/17



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## Volatiles by CLP OLM04.2 - GC/MS

**Lab ID:** 1704017-13**Station ID:** WPA-SB-02-12.0

Batch: B7F0902

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 6.455g

Sample Qualifiers:

%Solids: 89.05

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	41.2		94.7	85-117	04/28/17	04/28/17
Toluene-d8	42.7		98.2	87-106	"	"
4-Bromofluorobenzene	43.6		100	86-114	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cyclohexane (110-82-7)	88.3	J	87.0	50	04/28/17	04/28/17
Methylcyclohexane (108-87-2)	336	J	87.0	"	"	"
Isopropylbenzene (98-82-8)	U	J	87.0	"	"	"



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-14

Batch: B7D2005

Sample Type: Solid

**Station ID:** WPA-SB-02-2.0

Date Collected: 04/18/17

Sample Wt: 0.539g

Sample Qualifiers:

%Solids: 89.52

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	3,690		10.4	1	04/26/17	05/09/17
Barium (7440-39-3)	29.3		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	1.1		0.5	"	"	"
Calcium (7440-70-2)	1,210		15.5	"	"	"
Chromium (7440-47-3)	5.5		1.0	"	"	"
Cobalt (7440-48-4)	2.4		2.1	"	"	"
Copper (7440-50-8)	7.0	B	2.1	"	"	"
Iron (7439-89-6)	6,870		2.6	"	"	"
Magnesium (7439-95-4)	356		15.5	"	"	"
Manganese (7439-96-5)	129		0.5	"	"	"
Nickel (7440-02-2)	4.1		2.1	"	"	"
Potassium (7440-09-7)	379		104	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		51.8	"	"	"
Vanadium (7440-62-2)	12.2		2.1	"	"	"
Zinc (7440-66-6)	162		2.1	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-14

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.539g

%Solids: 89.52

Station ID: WPA-SB-02-2.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	<b>2.0</b>		0.5	"	"	"
Lead (7439-92-1)	<b>46.4</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



Environmental Protection Agency

## Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100      Fax:(281)983-2248

### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-14

Batch: B7E0806

Sample Type: Solid

Station ID: WPA-SB-02-2.0

Date Collected: 04/18/17

Sample Wt: 0.131g

%Solids: 89.52

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.103		0.068	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-15

Batch: B7D2005

Sample Type: Solid

**Station ID:** WPA-SB-02-6.0

Date Collected: 04/18/17

Sample Wt: 0.562g

Sample Qualifiers:

%Solids: 84.50

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	8,710		10.5	1	04/26/17	05/09/17
Barium (7440-39-3)	54.3		1.1	"	"	"
Beryllium (7440-41-7)	0.5		0.5	"	"	"
Cadmium (7440-43-9)	0.9		0.5	"	"	"
Calcium (7440-70-2)	1,250		15.8	"	"	"
Chromium (7440-47-3)	10.0		1.1	"	"	"
Cobalt (7440-48-4)	3.2		2.1	"	"	"
Copper (7440-50-8)	7.5	B	2.1	"	"	"
Iron (7439-89-6)	12,000		2.6	"	"	"
Magnesium (7439-95-4)	723		15.8	"	"	"
Manganese (7439-96-5)	76.0		0.5	"	"	"
Nickel (7440-02-2)	5.9		2.1	"	"	"
Potassium (7440-09-7)	792		105	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		52.6	"	"	"
Vanadium (7440-62-2)	21.6		2.1	"	"	"
Zinc (7440-66-6)	105		2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-15

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.562g

%Solids: 84.50

Station ID: WPA-SB-02-6.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	3.2		0.5	"	"	"
Lead (7439-92-1)	3.7		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-15

Batch: B7E0806

Sample Type: Solid

Station ID: WPA-SB-02-6.0

Date Collected: 04/18/17

Sample Wt: 0.148g

%Solids: 84.50

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.064	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-16

Batch: B7D2005

Sample Type: Solid

**Station ID:** WPA-SB-22-0.5

Date Collected: 04/18/17

Sample Wt: 0.549g

Sample Qualifiers:

%Solids: 88.92

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,760		10.2	1	04/26/17	05/09/17
Barium (7440-39-3)	93.4		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	3.1		0.5	"	"	"
Calcium (7440-70-2)	2,680		15.4	"	"	"
Chromium (7440-47-3)	11.8		1.0	"	"	"
Cobalt (7440-48-4)	3.3		2.0	"	"	"
Copper (7440-50-8)	16.9	B	2.0	"	"	"
Iron (7439-89-6)	10,100		2.6	"	"	"
Magnesium (7439-95-4)	697		15.4	"	"	"
Manganese (7439-96-5)	151		0.5	"	"	"
Nickel (7440-02-2)	6.6		2.0	"	"	"
Potassium (7440-09-7)	364		102	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		51.2	"	"	"
Vanadium (7440-62-2)	12.2		2.0	"	"	"
Zinc (7440-66-6)	549		2.0	"	"	"



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## Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-16

Batch: B7D2006

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.549g

%Solids: 88.92

**Station ID:** WPA-SB-22-0.5

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/08/17
Arsenic (7440-38-2)	2.5		0.5	"	"	"
Lead (7439-92-1)	142		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-16

Batch: B7E0806

Sample Type: Solid

Station ID: WPA-SB-22-0.5

Date Collected: 04/18/17

Sample Wt: 0.137g

%Solids: 88.92

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.299		0.066	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-17

Batch: B7D2605

Sample Type: Solid

**Station ID:** WPA-SB-22-2.0

Date Collected: 04/18/17

Sample Wt: 0.531g

Sample Qualifiers:

%Solids: 85.86

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	3,550		11.0	1	04/26/17	05/11/17
Barium (7440-39-3)	35.7		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	3.0		0.5	"	"	"
Calcium (7440-70-2)	1,840		16.5	"	"	"
Chromium (7440-47-3)	9.2		1.1	"	"	"
Cobalt (7440-48-4)	4.6		2.2	"	"	"
Copper (7440-50-8)	35.6	B	2.2	"	"	"
Iron (7439-89-6)	12,500		2.7	"	"	"
Magnesium (7439-95-4)	435		16.5	"	"	"
Manganese (7439-96-5)	195		0.5	"	"	"
Nickel (7440-02-2)	8.9		2.2	"	"	"
Potassium (7440-09-7)	434		110	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		54.8	"	"	"
Vanadium (7440-62-2)	15.5		2.2	"	"	"
Zinc (7440-66-6)	320		2.2	"	"	"



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## Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-17

Batch: B7D2606

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.531g

%Solids: 85.86

Station ID: WPA-SB-22-2.0

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	<b>2.9</b>		0.5	"	"	"
Lead (7439-92-1)	<b>112</b>		0.5	"	"	"
Selenium (7782-49-2)	<b>1.1</b>		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-17

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-22-2.0

Date Collected: 04/18/17

Sample Wt: 0.164g

%Solids: 85.86

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.099		0.057	1	05/10/17	05/10/17



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-18

Batch: B7D1808

Sample Type: Solid

Station ID: WPA-SB-22-6.0

Date Collected: 04/18/17

Sample Wt: 6.299g

Sample Qualifiers:

%Solids: 85.78

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	46.1		99.7	78-122	04/19/17	04/20/17
Toluene-d8	44.7		96.6	80-125	"	"
4-Bromofluorobenzene	44.2		95.6	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.6	1	04/19/17	04/20/17
Chloromethane (74-87-3)	U		4.6	"	"	"
Vinyl chloride (75-01-4)	U		4.6	"	"	"
Bromomethane (74-83-9)	U		4.6	"	"	"
Chloroethane (75-00-3)	U		4.6	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.6	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.6	"	"	"
Carbon disulfide (75-15-0)	U		4.6	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.6	"	"	"
<b>Acetone (67-64-1)</b>	<b>20.1</b>		9.3	"	"	"
Methylene chloride (75-09-2)	U		4.6	"	"	"
Methyl acetate (79-20-9)	U		4.6	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.6	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.6	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.6	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.6	"	"	"
2-Butanone (78-93-3)	U		4.6	"	"	"
Chloroform (67-66-3)	U		4.6	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.6	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.6	"	"	"
Cyclohexane (110-82-7)	U		4.6	"	"	"
Carbon tetrachloride (56-23-5)	U		4.6	"	"	"
Benzene (71-43-2)	U		4.6	"	"	"
Trichloroethene (79-01-6)	U		4.6	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>14.9</b>		4.6	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.6	"	"	"
Bromodichloromethane (75-27-4)	U		4.6	"	"	"



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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704017-18

Batch: B7D1808

Sample Type: Solid

**Station ID:** WPA-SB-22-6.0

Date Collected: 04/18/17

Sample Wt: 6.299g

Sample Qualifiers:

%Solids: 85.78

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.6	1	04/19/17	04/20/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.6	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.6	"	"	"
Dibromochloromethane (124-48-1)	U		4.6	"	"	"
Bromoform (75-25-2)	U		4.6	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.6	"	"	"
Toluene (108-88-3)	U		4.6	"	"	"
Tetrachloroethene (127-18-4)	U		4.6	"	"	"
2-Hexanone (591-78-6)	U		4.6	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.6	"	"	"
Chlorobenzene (108-90-7)	U		4.6	"	"	"
Ethylbenzene (100-41-4)	U		4.6	"	"	"
meta-/para-Xylene (na)	U		9.3	"	"	"
ortho-Xylene (95-47-6)	U		4.6	"	"	"
Styrene (100-42-5)	U		4.6	"	"	"
Isopropylbenzene (98-82-8)	U		4.6	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.6	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.6	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.6	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.6	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.6	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.6	"	"	"



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-18

Batch: B7D2605

Sample Type: Solid

**Station ID:** WPA-SB-22-6.0

Date Collected: 04/18/17

Sample Wt: 0.556g

Sample Qualifiers:

%Solids: 85.78

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	6,320		10.5	1	04/26/17	05/11/17
Barium (7440-39-3)	172		1.0	"	"	"
Beryllium (7440-41-7)	0.6		0.5	"	"	"
Cadmium (7440-43-9)	2.0		0.5	"	"	"
Calcium (7440-70-2)	3,090		15.7	"	"	"
Chromium (7440-47-3)	13.3		1.0	"	"	"
Cobalt (7440-48-4)	7.4		2.1	"	"	"
Copper (7440-50-8)	20.3	B	2.1	"	"	"
Iron (7439-89-6)	16,300		2.6	"	"	"
Magnesium (7439-95-4)	1,220		15.7	"	"	"
Manganese (7439-96-5)	185		0.5	"	"	"
Nickel (7440-02-2)	13.5		2.1	"	"	"
Potassium (7440-09-7)	719		105	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		52.4	"	"	"
Vanadium (7440-62-2)	23.4		2.1	"	"	"
Zinc (7440-66-6)	96.6		2.1	"	"	"



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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-18

Batch: B7D2606

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.556g

%Solids: 85.78

Station ID: WPA-SB-22-6.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	<b>3.9</b>		0.5	"	"	"
Lead (7439-92-1)	<b>41.6</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-18

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-22-6.0

Date Collected: 04/18/17

Sample Wt: 0.147g

%Solids: 85.78

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.083		0.063	1	05/10/17	05/10/17



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-19

Batch: B7D1808

Sample Type: Solid

Station ID: WPA-SB-22-8.0

Date Collected: 04/18/17

Sample Wt: 6.213g

Sample Qualifiers:

%Solids: 86.96

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	48.3		104	78-122	04/19/17	04/20/17
Toluene-d8	45.8		98.9	80-125	"	"
4-Bromofluorobenzene	45.6		98.5	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.6	1	04/19/17	04/20/17
Chloromethane (74-87-3)	U		4.6	"	"	"
Vinyl chloride (75-01-4)	U		4.6	"	"	"
Bromomethane (74-83-9)	U		4.6	"	"	"
Chloroethane (75-00-3)	U		4.6	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.6	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.6	"	"	"
Carbon disulfide (75-15-0)	U		4.6	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.6	"	"	"
<b>Acetone (67-64-1)</b>	<b>24.2</b>		9.3	"	"	"
Methylene chloride (75-09-2)	U		4.6	"	"	"
Methyl acetate (79-20-9)	U		4.6	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.6	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.6	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.6	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.6	"	"	"
2-Butanone (78-93-3)	U		4.6	"	"	"
Chloroform (67-66-3)	U		4.6	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.6	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.6	"	"	"
Cyclohexane (110-82-7)	U		4.6	"	"	"
Carbon tetrachloride (56-23-5)	U		4.6	"	"	"
Benzene (71-43-2)	U		4.6	"	"	"
Trichloroethene (79-01-6)	U		4.6	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>15.5</b>		4.6	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.6	"	"	"
Bromodichloromethane (75-27-4)	U		4.6	"	"	"



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-19

Batch: B7D1808

Sample Type: Solid

Station ID: WPA-SB-22-8.0

Date Collected: 04/18/17

Sample Wt: 6.213g

Sample Qualifiers:

%Solids: 86.96

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.6	1	04/19/17	04/20/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.6	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.6	"	"	"
Dibromochloromethane (124-48-1)	U		4.6	"	"	"
Bromoform (75-25-2)	U		4.6	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.6	"	"	"
Toluene (108-88-3)	U		4.6	"	"	"
Tetrachloroethene (127-18-4)	U		4.6	"	"	"
2-Hexanone (591-78-6)	U		4.6	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.6	"	"	"
Chlorobenzene (108-90-7)	U		4.6	"	"	"
Ethylbenzene (100-41-4)	U		4.6	"	"	"
meta-/para-Xylene (na)	U		9.3	"	"	"
ortho-Xylene (95-47-6)	U		4.6	"	"	"
Styrene (100-42-5)	U		4.6	"	"	"
Isopropylbenzene (98-82-8)	U		4.6	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.6	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.6	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.6	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.6	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.6	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.6	"	"	"



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP

Lab ID: 1704017-19

Batch: B7D2605

Sample Type: Solid

Station ID: WPA-SB-22-8.0

Date Collected: 04/18/17

Sample Wt: 0.532g

Sample Qualifiers:

%Solids: 86.96

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	5,180		10.8	1	04/26/17	05/11/17
Barium (7440-39-3)	92.9		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	1.1		0.5	"	"	"
Calcium (7440-70-2)	2,130		16.2	"	"	"
Chromium (7440-47-3)	10.0		1.1	"	"	"
Cobalt (7440-48-4)	5.1		2.2	"	"	"
Copper (7440-50-8)	7.8	B	2.2	"	"	"
Iron (7439-89-6)	11,100		2.7	"	"	"
Magnesium (7439-95-4)	1,250		16.2	"	"	"
Manganese (7439-96-5)	113		0.5	"	"	"
Nickel (7440-02-2)	10.4		2.2	"	"	"
Potassium (7440-09-7)	617		108	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	75.9		54.0	"	"	"
Vanadium (7440-62-2)	13.0		2.2	"	"	"
Zinc (7440-66-6)	37.2		2.2	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-19

Batch: B7D2606

Sample Type: Solid

Station ID: WPA-SB-22-8.0

Date Collected: 04/18/17

Sample Wt: 0.532g

%Solids: 86.96

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	<b>3.1</b>		0.5	"	"	"
Lead (7439-92-1)	<b>4.1</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-19

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-22-8.0

Date Collected: 04/18/17

Sample Wt: 0.15g

%Solids: 86.96

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.061	1	05/10/17	05/10/17



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-20

Station ID: WPA-SB-22-8.0-D

Batch: B7D1808

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 6.173g

Sample Qualifiers:

%Solids: 86.87

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	46.1		98.9	78-122	04/19/17	04/20/17
Toluene-d8	45.0		96.6	80-125	"	"
4-Bromofluorobenzene	43.4		93.2	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.7	1	04/19/17	04/20/17
Chloromethane (74-87-3)	U		4.7	"	"	"
Vinyl chloride (75-01-4)	U		4.7	"	"	"
Bromomethane (74-83-9)	U		4.7	"	"	"
Chloroethane (75-00-3)	U		4.7	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.7	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.7	"	"	"
Carbon disulfide (75-15-0)	U		4.7	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.7	"	"	"
<b>Acetone (67-64-1)</b>	<b>19.3</b>		9.3	"	"	"
Methylene chloride (75-09-2)	U		4.7	"	"	"
Methyl acetate (79-20-9)	U		4.7	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.7	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.7	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.7	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.7	"	"	"
2-Butanone (78-93-3)	U		4.7	"	"	"
Chloroform (67-66-3)	U		4.7	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.7	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.7	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>6.9</b>		4.7	"	"	"
Carbon tetrachloride (56-23-5)	U		4.7	"	"	"
Benzene (71-43-2)	U		4.7	"	"	"
Trichloroethene (79-01-6)	U		4.7	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>27.2</b>		4.7	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.7	"	"	"
Bromodichloromethane (75-27-4)	U		4.7	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704017-20**Station ID:** WPA-SB-22-8.0-D

Batch: B7D1808

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 6.173g

Sample Qualifiers:

%Solids: 86.87

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.7	1	04/19/17	04/20/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.7	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.7	"	"	"
Dibromochloromethane (124-48-1)	U		4.7	"	"	"
Bromoform (75-25-2)	U		4.7	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.7	"	"	"
Toluene (108-88-3)	U		4.7	"	"	"
Tetrachloroethene (127-18-4)	U		4.7	"	"	"
2-Hexanone (591-78-6)	U		4.7	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.7	"	"	"
Chlorobenzene (108-90-7)	U		4.7	"	"	"
Ethylbenzene (100-41-4)	U		4.7	"	"	"
meta-/para-Xylene (na)	U		9.3	"	"	"
ortho-Xylene (95-47-6)	U		4.7	"	"	"
Styrene (100-42-5)	U		4.7	"	"	"
Isopropylbenzene (98-82-8)	U		4.7	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.7	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.7	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.7	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.7	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.7	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.7	"	"	"



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-20**Station ID:** WPA-SB-22-8.0-D

Batch: B7D2605

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.54g

Sample Qualifiers:

%Solids: 86.87

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	4,400		10.7	1	04/26/17	05/11/17
Barium (7440-39-3)	84.8		1.1	"	"	"
Beryllium (7440-41-7)	0.5		0.5	"	"	"
Cadmium (7440-43-9)	1.1		0.5	"	"	"
Calcium (7440-70-2)	946		16.0	"	"	"
Chromium (7440-47-3)	8.8		1.1	"	"	"
Cobalt (7440-48-4)	4.5		2.1	"	"	"
Copper (7440-50-8)	9.9	B	2.1	"	"	"
Iron (7439-89-6)	10,900		2.7	"	"	"
Magnesium (7439-95-4)	1,010		16.0	"	"	"
Manganese (7439-96-5)	166		0.5	"	"	"
Nickel (7440-02-2)	10.3		2.1	"	"	"
Potassium (7440-09-7)	567		107	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	62.5		53.3	"	"	"
Vanadium (7440-62-2)	16.6		2.1	"	"	"
Zinc (7440-66-6)	30.5		2.1	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-20

Station ID: WPA-SB-22-8.0-D

Batch: B7D2606

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.54g

Sample Qualifiers:

%Solids: 86.87

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	<b>2.8</b>		0.5	"	"	"
Lead (7439-92-1)	<b>8.9</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-20

Station ID: WPA-SB-22-8.0-D

Batch: B7E0807

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.133g

Sample Qualifiers:

%Solids: 86.87

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.069	1	05/10/17	05/10/17



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-21

Batch: B7D2605

Sample Type: Solid

**Station ID:** WPA-SB-24-0.5

Date Collected: 04/18/17

Sample Wt: 0.543g

Sample Qualifiers:

%Solids: 90.56

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,870		10.2	1	04/26/17	05/11/17
Barium (7440-39-3)	43.1		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	4.2	J	0.5	"	"	"
Calcium (7440-70-2)	1,170		15.3	"	"	"
Chromium (7440-47-3)	14.3		1.0	"	"	"
Cobalt (7440-48-4)	5.0		2.0	"	"	"
Copper (7440-50-8)	83.9	J	2.0	"	"	"
Iron (7439-89-6)	32,600		2.5	"	"	"
Magnesium (7439-95-4)	466		15.3	"	"	"
Manganese (7439-96-5)	339		0.5	"	"	"
Nickel (7440-02-2)	40.7	J	2.0	"	"	"
Potassium (7440-09-7)	398		102	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		50.8	"	"	"
Vanadium (7440-62-2)	10.6		2.0	"	"	"
Zinc (7440-66-6)	243	J	2.0	"	"	"



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-21

Batch: B7D2606

Sample Type: Solid

Station ID: WPA-SB-24-0.5

Date Collected: 04/18/17

Sample Wt: 0.543g

%Solids: 90.56

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	0.7	J	0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	3.1		0.5	"	"	"
Lead (7439-92-1)	366		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-21

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-24-0.5

Date Collected: 04/18/17

Sample Wt: 0.124g

%Solids: 90.56

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.955	J	0.071	1	05/10/17	05/10/17



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-22

Station ID: WPA-SB-24-10.0

Batch: B7D1808

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 5.941g

Sample Qualifiers:

%Solids: 89.84

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	46.1		98.5	78-122	04/19/17	04/20/17
Toluene-d8	65.4		140 #	80-125	"	"
4-Bromofluorobenzene	54.3		116 #	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.7	1	04/19/17	04/20/17
Chloromethane (74-87-3)	U		4.7	"	"	"
Vinyl chloride (75-01-4)	U		4.7	"	"	"
Bromomethane (74-83-9)	U		4.7	"	"	"
Chloroethane (75-00-3)	U		4.7	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.7	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.7	"	"	"
Carbon disulfide (75-15-0)	U		4.7	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.7	"	"	"
<b>Acetone (67-64-1)</b>	<b>40.1</b>		9.4	"	"	"
Methylene chloride (75-09-2)	U		4.7	"	"	"
Methyl acetate (79-20-9)	U		4.7	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.7	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.7	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.7	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.7	"	"	"
2-Butanone (78-93-3)	U		4.7	"	"	"
Chloroform (67-66-3)	U		4.7	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.7	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.7	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>26.4</b>	<b>J</b>	4.7	"	"	"
Carbon tetrachloride (56-23-5)	U		4.7	"	"	"
Benzene (71-43-2)	U		4.7	"	"	"
Trichloroethene (79-01-6)	U		4.7	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>326</b>	<b>J</b>	4.7	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.7	"	"	"
Bromodichloromethane (75-27-4)	U		4.7	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-22

Station ID: WPA-SB-24-10.0

Batch: B7D1808

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 5.941g

Sample Qualifiers:

%Solids: 89.84

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.7	1	04/19/17	04/20/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.7	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.7	"	"	"
Dibromochloromethane (124-48-1)	U		4.7	"	"	"
Bromoform (75-25-2)	U		4.7	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.7	"	"	"
Toluene (108-88-3)	U		4.7	"	"	"
Tetrachloroethene (127-18-4)	U		4.7	"	"	"
2-Hexanone (591-78-6)	U		4.7	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.7	"	"	"
Chlorobenzene (108-90-7)	U		4.7	"	"	"
Ethylbenzene (100-41-4)	U		4.7	"	"	"
meta-/para-Xylene (na)	U		9.4	"	"	"
ortho-Xylene (95-47-6)	U		4.7	"	"	"
Styrene (100-42-5)	U		4.7	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>92.2</b>	<b>J</b>	<b>4.7</b>	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.7	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.7	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.7	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.7	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.7	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.7	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-22**Station ID:** WPA-SB-24-10.0

Batch: B7D2605

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.545g

Sample Qualifiers:

%Solids: 89.84

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,530		10.2	1	04/26/17	05/11/17
Barium (7440-39-3)	38.1		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.6		0.5	"	"	"
Calcium (7440-70-2)	393		15.3	"	"	"
Chromium (7440-47-3)	5.4		1.0	"	"	"
Cobalt (7440-48-4)	3.0		2.0	"	"	"
Copper (7440-50-8)	3.1	B	2.0	"	"	"
Iron (7439-89-6)	6,420		2.6	"	"	"
Magnesium (7439-95-4)	300		15.3	"	"	"
Manganese (7439-96-5)	99.0		0.5	"	"	"
Nickel (7440-02-2)	4.3		2.0	"	"	"
Potassium (7440-09-7)	333		102	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		51.1	"	"	"
Vanadium (7440-62-2)	9.4		2.0	"	"	"
Zinc (7440-66-6)	11.3		2.0	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-22

Batch: B7D2606

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.545g

%Solids: 89.84

Station ID: WPA-SB-24-10.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	1.6		0.5	"	"	"
Lead (7439-92-1)	12.3		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-22

Batch: B7E0807

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.143g

%Solids: 89.84

Station ID: WPA-SB-24-10.0

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.062	1	05/10/17	05/10/17



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-22RE1

Station ID: WPA-SB-24-10.0

Batch: B7D1808

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 5.836g

Sample Qualifiers: HTS

%Solids: 89.84

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	47.7		100	78-122	04/19/17	05/31/17
Toluene-d8	47.6		99.7	80-125	"	"
4-Bromofluorobenzene	49.4		104	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U	RL	47.7	1	04/19/17	05/31/17
Chloromethane (74-87-3)	U	RL	9.5	"	"	"
Vinyl chloride (75-01-4)	U		4.8	"	"	"
Bromomethane (74-83-9)	U		4.8	"	"	"
Chloroethane (75-00-3)	U		4.8	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.8	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.8	"	"	"
Carbon disulfide (75-15-0)	U		4.8	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.8	"	"	"
<b>Acetone (67-64-1)</b>	<b>58.8</b>	<b>B</b>	9.5	"	"	"
Methylene chloride (75-09-2)	U		4.8	"	"	"
Methyl acetate (79-20-9)	U		4.8	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.8	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.8	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.8	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.8	"	"	"
<b>2-Butanone (78-93-3)</b>	<b>8.2</b>	<b>B</b>	4.8	"	"	"
Chloroform (67-66-3)	U		4.8	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.8	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.8	"	"	"
Cyclohexane (110-82-7)	U	J	4.8	"	"	"
Carbon tetrachloride (56-23-5)	U		4.8	"	"	"
Benzene (71-43-2)	U		4.8	"	"	"
Trichloroethene (79-01-6)	U		4.8	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>6.2</b>	<b>J</b>	4.8	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.8	"	"	"
Bromodichloromethane (75-27-4)	U		4.8	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704017-22RE1**Station ID:** WPA-SB-24-10.0

Batch: B7D1808

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 5.836g

Sample Qualifiers: HTS

%Solids: 89.84

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.8	1	04/19/17	05/31/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.8	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.8	"	"	"
Dibromochloromethane (124-48-1)	U		4.8	"	"	"
Bromoform (75-25-2)	U		4.8	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.8	"	"	"
Toluene (108-88-3)	U		4.8	"	"	"
Tetrachloroethene (127-18-4)	U		4.8	"	"	"
2-Hexanone (591-78-6)	U		4.8	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.8	"	"	"
Chlorobenzene (108-90-7)	U		4.8	"	"	"
Ethylbenzene (100-41-4)	U		4.8	"	"	"
meta-/para-Xylene (na)	U	J	9.5	"	"	"
ortho-Xylene (95-47-6)	U		4.8	"	"	"
Styrene (100-42-5)	U		4.8	"	"	"
Isopropylbenzene (98-82-8)	U	J	4.8	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.8	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.8	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.8	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.8	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.8	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.8	"	"	"



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## Metals by CLP ILMO5.3 - ICP

Lab ID: 1704017-23

Station ID: WPA-SB-24-10.0-D

Batch: B7D2605

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.534g

Sample Qualifiers:

%Solids: 90.03

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,330		10.4	1	04/26/17	05/11/17
Barium (7440-39-3)	25.1		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.5		0.5	"	"	"
Calcium (7440-70-2)	313		15.6	"	"	"
Chromium (7440-47-3)	5.8		1.0	"	"	"
Cobalt (7440-48-4)	2.7		2.1	"	"	"
Copper (7440-50-8)	3.6	B	2.1	"	"	"
Iron (7439-89-6)	5,720		2.6	"	"	"
Magnesium (7439-95-4)	265		15.6	"	"	"
Manganese (7439-96-5)	67.9		0.5	"	"	"
Nickel (7440-02-2)	3.6		2.1	"	"	"
Potassium (7440-09-7)	323		104	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		52.0	"	"	"
Vanadium (7440-62-2)	8.8		2.1	"	"	"
Zinc (7440-66-6)	12.6		2.1	"	"	"



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-23

Station ID: WPA-SB-24-10.0-D

Batch: B7D2606

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.534g

Sample Qualifiers:

%Solids: 90.03

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	1.4		0.5	"	"	"
Lead (7439-92-1)	10.2		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-23

Station ID: WPA-SB-24-10.0-D

Batch: B7E0807

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.132g

Sample Qualifiers:

%Solids: 90.03

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.067	1	05/10/17	05/10/17



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# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-24

Batch: B7D2605

Sample Type: Solid

**Station ID:** WPA-SB-24-2.0

Date Collected: 04/18/17

Sample Wt: 0.549g

Sample Qualifiers:

%Solids: 89.10

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	4,270		10.2	1	04/26/17	05/11/17
Barium (7440-39-3)	35.8		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	2.9		0.5	"	"	"
Calcium (7440-70-2)	874		15.3	"	"	"
Chromium (7440-47-3)	13.0		1.0	"	"	"
Cobalt (7440-48-4)	4.4		2.0	"	"	"
Copper (7440-50-8)	27.5	B	2.0	"	"	"
Iron (7439-89-6)	28,700		2.6	"	"	"
Magnesium (7439-95-4)	466		15.3	"	"	"
Manganese (7439-96-5)	225		0.5	"	"	"
Nickel (7440-02-2)	12.5		2.0	"	"	"
Potassium (7440-09-7)	549		102	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		51.1	"	"	"
Vanadium (7440-62-2)	13.0		2.0	"	"	"
Zinc (7440-66-6)	69.4		2.0	"	"	"



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## Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-24

Batch: B7D2606

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.549g

%Solids: 89.10

Station ID: WPA-SB-24-2.0

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	3.3		0.5	"	"	"
Lead (7439-92-1)	43.2		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-24

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-24-2.0

Date Collected: 04/18/17

Sample Wt: 0.135g

%Solids: 89.10

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.168		0.067	1	05/10/17	05/10/17



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-25

Batch: B7D1808

Sample Type: Solid

Station ID: WPA-SB-24-6.0

Date Collected: 04/18/17

Sample Wt: 6.237g

%Solids: 90.51

Sample Qualifiers:

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	43.0		97.0	78-122	04/19/17	04/20/17
Toluene-d8	42.6		96.3	80-125	"	"
4-Bromofluorobenzene	40.1		90.6	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.4	1	04/19/17	04/20/17
Chloromethane (74-87-3)	U		4.4	"	"	"
Vinyl chloride (75-01-4)	U		4.4	"	"	"
Bromomethane (74-83-9)	U		4.4	"	"	"
Chloroethane (75-00-3)	U		4.4	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.4	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.4	"	"	"
Carbon disulfide (75-15-0)	U		4.4	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.4	"	"	"
Acetone (67-64-1)	U		8.9	"	"	"
Methylene chloride (75-09-2)	U		4.4	"	"	"
Methyl acetate (79-20-9)	U		4.4	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.4	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.4	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.4	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.4	"	"	"
2-Butanone (78-93-3)	U		4.4	"	"	"
Chloroform (67-66-3)	U		4.4	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.4	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.4	"	"	"
Cyclohexane (110-82-7)	U		4.4	"	"	"
Carbon tetrachloride (56-23-5)	U		4.4	"	"	"
Benzene (71-43-2)	U		4.4	"	"	"
Trichloroethene (79-01-6)	U		4.4	"	"	"
Methylcyclohexane (108-87-2)	U		4.4	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.4	"	"	"
Bromodichloromethane (75-27-4)	U		4.4	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704017-25

Batch: B7D1808

Sample Type: Solid

**Station ID:** WPA-SB-24-6.0

Date Collected: 04/18/17

Sample Wt: 6.237g

%Solids: 90.51

Sample Qualifiers:

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.4	1	04/19/17	04/20/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.4	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.4	"	"	"
Dibromochloromethane (124-48-1)	U		4.4	"	"	"
Bromoform (75-25-2)	U		4.4	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.4	"	"	"
Toluene (108-88-3)	U		4.4	"	"	"
Tetrachloroethene (127-18-4)	U		4.4	"	"	"
2-Hexanone (591-78-6)	U		4.4	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.4	"	"	"
Chlorobenzene (108-90-7)	U		4.4	"	"	"
Ethylbenzene (100-41-4)	U		4.4	"	"	"
meta-/para-Xylene (na)	U		8.9	"	"	"
ortho-Xylene (95-47-6)	U		4.4	"	"	"
Styrene (100-42-5)	U		4.4	"	"	"
Isopropylbenzene (98-82-8)	U		4.4	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.4	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.4	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.4	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.4	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.4	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.4	"	"	"



Environmental Protection Agency

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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-25

Batch: B7D2605

Sample Type: Solid

**Station ID:** WPA-SB-24-6.0

Date Collected: 04/18/17

Sample Wt: 0.519g

Sample Qualifiers:

%Solids: 90.51

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	4,790		10.6	1	04/26/17	05/11/17
Barium (7440-39-3)	40.4		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.8		0.5	"	"	"
Calcium (7440-70-2)	897		16.0	"	"	"
Chromium (7440-47-3)	7.9		1.1	"	"	"
Cobalt (7440-48-4)	4.2		2.1	"	"	"
Copper (7440-50-8)	7.7	B	2.1	"	"	"
Iron (7439-89-6)	8,340		2.7	"	"	"
Magnesium (7439-95-4)	536		16.0	"	"	"
Manganese (7439-96-5)	115		0.5	"	"	"
Nickel (7440-02-2)	7.1		2.1	"	"	"
Potassium (7440-09-7)	619		106	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		53.2	"	"	"
Vanadium (7440-62-2)	14.3		2.1	"	"	"
Zinc (7440-66-6)	44.8		2.1	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-25

Batch: B7D2606

Sample Type: Solid

Station ID: WPA-SB-24-6.0

Date Collected: 04/18/17

Sample Wt: 0.519g

%Solids: 90.51

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	1.8		0.5	"	"	"
Lead (7439-92-1)	10.9		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-25

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-24-6.0

Date Collected: 04/18/17

Sample Wt: 0.126g

%Solids: 90.51

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.070	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-26

Batch: B7D2605

Sample Type: Solid

**Station ID:** WPA-SB-26-0.5

Date Collected: 04/18/17

Sample Wt: 0.544g

Sample Qualifiers:

%Solids: 87.83

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,040		10.5	1	04/26/17	05/11/17
Barium (7440-39-3)	40.7		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	2.5		0.5	"	"	"
Calcium (7440-70-2)	2,860		15.7	"	"	"
Chromium (7440-47-3)	8.2		1.0	"	"	"
Cobalt (7440-48-4)	2.6		2.1	"	"	"
Copper (7440-50-8)	22.9	B	2.1	"	"	"
Iron (7439-89-6)	8,430		2.6	"	"	"
Magnesium (7439-95-4)	627		15.7	"	"	"
Manganese (7439-96-5)	179		0.5	"	"	"
Nickel (7440-02-2)	6.5		2.1	"	"	"
Potassium (7440-09-7)	353		105	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		52.3	"	"	"
Vanadium (7440-62-2)	8.3		2.1	"	"	"
Zinc (7440-66-6)	97.0		2.1	"	"	"



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## Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-26

Batch: B7D2606

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.544g

%Solids: 87.83

**Station ID:** WPA-SB-26-0.5

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	1.8		0.5	"	"	"
Lead (7439-92-1)	178		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-26

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-26-0.5

Date Collected: 04/18/17

Sample Wt: 0.138g

%Solids: 87.83

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.686		0.066	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-27

Batch: B7D2605

Sample Type: Solid

**Station ID:** WPA-SB-26-2.0

Date Collected: 04/18/17

Sample Wt: 0.547g

Sample Qualifiers:

%Solids: 90.25

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,260		10.1	1	04/26/17	05/11/17
Barium (7440-39-3)	70.1		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	1.1		0.5	"	"	"
Calcium (7440-70-2)	1,680		15.2	"	"	"
Chromium (7440-47-3)	6.7		1.0	"	"	"
Cobalt (7440-48-4)	3.3		2.0	"	"	"
Copper (7440-50-8)	13.9	B	2.0	"	"	"
Iron (7439-89-6)	8,910		2.5	"	"	"
Magnesium (7439-95-4)	398		15.2	"	"	"
Manganese (7439-96-5)	557		0.5	"	"	"
Nickel (7440-02-2)	6.2		2.0	"	"	"
Potassium (7440-09-7)	308		101	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	U		50.6	"	"	"
Vanadium (7440-62-2)	10.6		2.0	"	"	"
Zinc (7440-66-6)	73.3		2.0	"	"	"



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## Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-27

Batch: B7D2606

Sample Type: Solid

Station ID: WPA-SB-26-2.0

Date Collected: 04/18/17

Sample Wt: 0.547g

%Solids: 90.25

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	0.6		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	2.4		0.5	"	"	"
Lead (7439-92-1)	76.9		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-27

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-26-2.0

Date Collected: 04/18/17

Sample Wt: 0.141g

%Solids: 90.25

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.358		0.063	1	05/10/17	05/10/17



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-28

Batch: B7D1808

Sample Type: Solid

Station ID: WPA-SB-26-6.0

Date Collected: 04/18/17

Sample Wt: 6.039g

%Solids: 86.50

Sample Qualifiers:

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	45.6		95.3	78-122	04/19/17	04/20/17
Toluene-d8	44.7		93.3	80-125	"	"
4-Bromofluorobenzene	42.7		89.2	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.8	1	04/19/17	04/20/17
Chloromethane (74-87-3)	U		4.8	"	"	"
Vinyl chloride (75-01-4)	U		4.8	"	"	"
Bromomethane (74-83-9)	U		4.8	"	"	"
Chloroethane (75-00-3)	U		4.8	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.8	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.8	"	"	"
Carbon disulfide (75-15-0)	U		4.8	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.8	"	"	"
Acetone (67-64-1)	U		9.6	"	"	"
Methylene chloride (75-09-2)	U		4.8	"	"	"
Methyl acetate (79-20-9)	U		4.8	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.8	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.8	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.8	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.8	"	"	"
2-Butanone (78-93-3)	U		4.8	"	"	"
Chloroform (67-66-3)	U		4.8	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.8	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.8	"	"	"
Cyclohexane (110-82-7)	U		4.8	"	"	"
Carbon tetrachloride (56-23-5)	U		4.8	"	"	"
Benzene (71-43-2)	U		4.8	"	"	"
Trichloroethene (79-01-6)	U		4.8	"	"	"
Methylcyclohexane (108-87-2)	U		4.8	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.8	"	"	"
Bromodichloromethane (75-27-4)	U		4.8	"	"	"



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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704017-28

Batch: B7D1808

Sample Type: Solid

**Station ID:** WPA-SB-26-6.0

Date Collected: 04/18/17

Sample Wt: 6.039g

Sample Qualifiers:

%Solids: 86.50

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.8	1	04/19/17	04/20/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.8	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.8	"	"	"
Dibromochloromethane (124-48-1)	U		4.8	"	"	"
Bromoform (75-25-2)	U		4.8	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.8	"	"	"
Toluene (108-88-3)	U		4.8	"	"	"
Tetrachloroethene (127-18-4)	U		4.8	"	"	"
2-Hexanone (591-78-6)	U		4.8	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.8	"	"	"
Chlorobenzene (108-90-7)	U		4.8	"	"	"
Ethylbenzene (100-41-4)	U		4.8	"	"	"
meta-/para-Xylene (na)	U		9.6	"	"	"
ortho-Xylene (95-47-6)	U		4.8	"	"	"
Styrene (100-42-5)	U		4.8	"	"	"
Isopropylbenzene (98-82-8)	U		4.8	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.8	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.8	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.8	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.8	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.8	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.8	"	"	"



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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-28

Batch: B7D2605

Sample Type: Solid

**Station ID:** WPA-SB-26-6.0

Date Collected: 04/18/17

Sample Wt: 0.542g

Sample Qualifiers:

%Solids: 86.50

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	4,680		10.7	1	04/26/17	05/11/17
Barium (7440-39-3)	56.2		1.1	"	"	"
Beryllium (7440-41-7)	1.0		0.5	"	"	"
Cadmium (7440-43-9)	1.8	J	0.5	"	"	"
Calcium (7440-70-2)	1,510		16.0	"	"	"
Chromium (7440-47-3)	11.9		1.1	"	"	"
Cobalt (7440-48-4)	8.4	J	2.1	"	"	"
Copper (7440-50-8)	4.1	B	2.1	"	"	"
Iron (7439-89-6)	21,900		2.7	"	"	"
Magnesium (7439-95-4)	1,340		16.0	"	"	"
Manganese (7439-96-5)	241		0.5	"	"	"
Nickel (7440-02-2)	26.8	J	2.1	"	"	"
Potassium (7440-09-7)	922		107	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	446		53.3	"	"	"
Vanadium (7440-62-2)	23.7	J	2.1	"	"	"
Zinc (7440-66-6)	15.0		2.1	"	"	"



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## Metals by CLP ILMO5.3 - ICP/MS

**Lab ID:** 1704017-28

Batch: B7D2606

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.542g

%Solids: 86.50

**Station ID:** WPA-SB-26-6.0

Sample Qualifiers:

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U	UJ	0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	<b>13.6</b>	<b>J</b>	0.5	"	"	"
Lead (7439-92-1)	<b>6.4</b>	<b>J</b>	0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-28

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-26-6.0

Date Collected: 04/18/17

Sample Wt: 0.143g

%Solids: 86.50

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.074		0.065	1	05/10/17	05/10/17



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## Metals by CLP ILMO5.3 - ICP

Lab ID: 1704017-29

Station ID: WPA-SB-26-6.0-D

Batch: B7D2605

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.562g

Sample Qualifiers:

%Solids: 88.11

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	2,450		10.1	1	04/26/17	05/11/17
Barium (7440-39-3)	36.0		1.0	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	0.8		0.5	"	"	"
Calcium (7440-70-2)	1,130		15.1	"	"	"
Chromium (7440-47-3)	10.8		1.0	"	"	"
Cobalt (7440-48-4)	3.9		2.0	"	"	"
Copper (7440-50-8)	6.2	B	2.0	"	"	"
Iron (7439-89-6)	9,850		2.5	"	"	"
Magnesium (7439-95-4)	397		15.1	"	"	"
Manganese (7439-96-5)	131		0.5	"	"	"
Nickel (7440-02-2)	7.0		2.0	"	"	"
Potassium (7440-09-7)	292		101	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	76.2		50.5	"	"	"
Vanadium (7440-62-2)	11.3		2.0	"	"	"
Zinc (7440-66-6)	14.3		2.0	"	"	"



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## Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-29

Station ID: WPA-SB-26-6.0-D

Batch: B7D2606

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.562g

Sample Qualifiers:

%Solids: 88.11

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	<b>5.2</b>		0.5	"	"	"
Lead (7439-92-1)	<b>18.6</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-29

Station ID: WPA-SB-26-6.0-D

Batch: B7E0807

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.153g

Sample Qualifiers:

%Solids: 88.11

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.112		0.059	1	05/10/17	05/10/17



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704017-30

Batch: B7D1808

Sample Type: Solid

Station ID: WPA-SB-26-7.5

Date Collected: 04/18/17

Sample Wt: 5.75g

%Solids: 84.91

Sample Qualifiers:

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	48.6		95.0	78-122	04/19/17	04/20/17
Toluene-d8	50.0		97.7	80-125	"	"
4-Bromofluorobenzene	47.5		92.8	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.1	1	04/19/17	04/20/17
Chloromethane (74-87-3)	U		5.1	"	"	"
Vinyl chloride (75-01-4)	U		5.1	"	"	"
Bromomethane (74-83-9)	U		5.1	"	"	"
Chloroethane (75-00-3)	U		5.1	"	"	"
Trichlorofluoromethane (75-69-4)	U		5.1	"	"	"
1,1-Dichloroethene (75-35-4)	U		5.1	"	"	"
Carbon disulfide (75-15-0)	U		5.1	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		5.1	"	"	"
Acetone (67-64-1)	U		10.2	"	"	"
Methylene chloride (75-09-2)	U		5.1	"	"	"
Methyl acetate (79-20-9)	U		5.1	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		5.1	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		5.1	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		5.1	"	"	"
1,1-Dichloroethane (75-34-3)	U		5.1	"	"	"
2-Butanone (78-93-3)	U		5.1	"	"	"
Chloroform (67-66-3)	U		5.1	"	"	"
1,2-Dichloroethane (107-06-2)	U		5.1	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		5.1	"	"	"
Cyclohexane (110-82-7)	U		5.1	"	"	"
Carbon tetrachloride (56-23-5)	U		5.1	"	"	"
Benzene (71-43-2)	U		5.1	"	"	"
Trichloroethene (79-01-6)	U		5.1	"	"	"
Methylcyclohexane (108-87-2)	U		5.1	"	"	"
1,2-Dichloropropane (78-87-5)	U		5.1	"	"	"
Bromodichloromethane (75-27-4)	U		5.1	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704017-30

Batch: B7D1808

Sample Type: Solid

**Station ID:** WPA-SB-26-7.5

Date Collected: 04/18/17

Sample Wt: 5.75g

%Solids: 84.91

Sample Qualifiers:

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		5.1	1	04/19/17	04/20/17
trans-1,3-Dichloropropene (10061-02-6)	U		5.1	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		5.1	"	"	"
Dibromochloromethane (124-48-1)	U		5.1	"	"	"
Bromoform (75-25-2)	U		5.1	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.1	"	"	"
Toluene (108-88-3)	U		5.1	"	"	"
Tetrachloroethene (127-18-4)	U		5.1	"	"	"
2-Hexanone (591-78-6)	U		5.1	"	"	"
1,2-Dibromoethane (106-93-4)	U		5.1	"	"	"
Chlorobenzene (108-90-7)	U		5.1	"	"	"
Ethylbenzene (100-41-4)	U		5.1	"	"	"
meta-/para-Xylene (na)	U		10.2	"	"	"
ortho-Xylene (95-47-6)	U		5.1	"	"	"
Styrene (100-42-5)	U		5.1	"	"	"
Isopropylbenzene (98-82-8)	U		5.1	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		5.1	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		5.1	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		5.1	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		5.1	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.1	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.1	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-30

Batch: B7D2605

Sample Type: Solid

**Station ID:** WPA-SB-26-7.5

Date Collected: 04/18/17

Sample Wt: 0.528g

Sample Qualifiers:

%Solids: 84.91

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	4,330		11.2	1	04/26/17	05/11/17
Barium (7440-39-3)	81.5		1.1	"	"	"
Beryllium (7440-41-7)	1.1		0.6	"	"	"
Cadmium (7440-43-9)	1.2		0.6	"	"	"
Calcium (7440-70-2)	1,410		16.7	"	"	"
Chromium (7440-47-3)	10.4		1.1	"	"	"
Cobalt (7440-48-4)	7.5		2.2	"	"	"
Copper (7440-50-8)	U		2.2	"	"	"
Iron (7439-89-6)	13,900		2.8	"	"	"
Magnesium (7439-95-4)	1,500		16.7	"	"	"
Manganese (7439-96-5)	112		0.6	"	"	"
Nickel (7440-02-2)	28.5		2.2	"	"	"
Potassium (7440-09-7)	1,080		112	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	662		55.8	"	"	"
Vanadium (7440-62-2)	17.1		2.2	"	"	"
Zinc (7440-66-6)	12.2		2.2	"	"	"



Environmental Protection Agency

## Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-30

Batch: B7D2606

Sample Type: Solid

Date Collected: 04/18/17

Sample Wt: 0.528g

%Solids: 84.91

Station ID: WPA-SB-26-7.5

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.6	10	04/26/17	05/09/17
Arsenic (7440-38-2)	<b>12.8</b>		0.6	"	"	"
Lead (7439-92-1)	<b>1.3</b>		0.6	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"



Environmental Protection Agency

## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-30

Batch: B7E0807

Sample Type: Solid

Station ID: WPA-SB-26-7.5

Date Collected: 04/18/17

Sample Wt: 0.148g

%Solids: 84.91

Sample Qualifiers:

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.064	1	05/10/17	05/10/17



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Metals by CLP ILMO5.3 - ICP

**Lab ID:** 1704017-31**Station ID:** WPA-SB-26-7.5-D

Batch: B7D2605

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.543g

Sample Qualifiers:

%Solids: 86.05

### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	3,500		10.7	1	04/26/17	05/11/17
Barium (7440-39-3)	70.6		1.1	"	"	"
Beryllium (7440-41-7)	0.8		0.5	"	"	"
Cadmium (7440-43-9)	0.9		0.5	"	"	"
Calcium (7440-70-2)	2,250		16.1	"	"	"
Chromium (7440-47-3)	8.4		1.1	"	"	"
Cobalt (7440-48-4)	6.9		2.1	"	"	"
Copper (7440-50-8)	2.3	B	2.1	"	"	"
Iron (7439-89-6)	11,000		2.7	"	"	"
Magnesium (7439-95-4)	1,330		16.1	"	"	"
Manganese (7439-96-5)	167		0.5	"	"	"
Nickel (7440-02-2)	23.4		2.1	"	"	"
Potassium (7440-09-7)	786		107	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	621		53.5	"	"	"
Vanadium (7440-62-2)	13.7		2.1	"	"	"
Zinc (7440-66-6)	12.2		2.1	"	"	"



Environmental Protection Agency

## Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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### Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1704017-31

Station ID: WPA-SB-26-7.5-D

Batch: B7D2606

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.543g

Sample Qualifiers:

%Solids: 86.05

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	04/26/17	05/09/17
Arsenic (7440-38-2)	<b>6.8</b>		0.5	"	"	"
Lead (7439-92-1)	<b>2.9</b>		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



Environmental Protection Agency

## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1704017-31

Station ID: WPA-SB-26-7.5-D

Batch: B7E0807

Date Collected: 04/18/17

Sample Type: Solid

Sample Wt: 0.153g

Sample Qualifiers:

%Solids: 86.05

#### Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.061	1	05/10/17	05/10/17



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# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1704018-01

Station ID: ER-170418-1

Batch: B7D2703

Date Collected: 04/18/17

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

### Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	9.50		95.0	86-117	04/25/17	04/25/17
Toluene-d8	9.93		99.3	85-113	"	"
4-Bromofluorobenzene	9.51		95.1	73-115	"	"

### Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		0.5	1	04/25/17	04/25/17
Chloromethane (74-87-3)	U		0.5	"	"	"
Vinyl chloride (75-01-4)	U		0.5	"	"	"
Bromomethane (74-83-9)	U		0.5	"	"	"
Chloroethane (75-00-3)	U		0.5	"	"	"
Trichlorofluoromethane (75-69-4)	U		0.5	"	"	"
1,1-Dichloroethene (75-35-4)	U		0.5	"	"	"
Carbon disulfide (75-15-0)	U		0.5	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		0.5	"	"	"
Acetone (67-64-1)	U		5.0	"	"	"
Methylene chloride (75-09-2)	U		0.5	"	"	"
Methyl acetate (79-20-9)	U		0.5	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		0.5	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		0.5	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		0.5	"	"	"
1,1-Dichloroethane (75-34-3)	U		0.5	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		0.5	"	"	"
1,2-Dichloroethane (107-06-2)	U		0.5	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		0.5	"	"	"
Cyclohexane (110-82-7)	U		0.5	"	"	"
Carbon tetrachloride (56-23-5)	U		0.5	"	"	"
Benzene (71-43-2)	U		0.5	"	"	"
Trichloroethene (79-01-6)	U		0.5	"	"	"
Methylcyclohexane (108-87-2)	U		0.5	"	"	"
1,2-Dichloropropane (78-87-5)	U		0.5	"	"	"
Bromodichloromethane (75-27-4)	U		0.5	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

## Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1704018-01

Station ID: ER-170418-1

Batch: B7D2703

Date Collected: 04/18/17

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

### Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		0.5	1	04/25/17	04/25/17
trans-1,3-Dichloropropene (10061-02-6)	U		0.5	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		0.5	"	"	"
Dibromochloromethane (124-48-1)	U		0.5	"	"	"
Bromoform (75-25-2)	U		0.5	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		0.5	"	"	"
Tetrachloroethene (127-18-4)	U		0.5	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		0.5	"	"	"
Chlorobenzene (108-90-7)	U		0.5	"	"	"
Ethylbenzene (100-41-4)	U		0.5	"	"	"
meta-/para-Xylene (na)	U		1.0	"	"	"
ortho-Xylene (95-47-6)	U		0.5	"	"	"
Styrene (100-42-5)	U		0.5	"	"	"
Isopropylbenzene (98-82-8)	U		0.5	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		0.5	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		0.5	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		0.5	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		0.5	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		0.5	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1704018-02

Station ID: ER-170419-1

Batch: B7D2703

Date Collected: 04/19/17

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

### Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	9.38		93.8	86-117	04/25/17	04/25/17
Toluene-d8	10.0		100	85-113	"	"
4-Bromofluorobenzene	9.74		97.4	73-115	"	"

### Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		0.5	1	04/25/17	04/25/17
Chloromethane (74-87-3)	U		0.5	"	"	"
Vinyl chloride (75-01-4)	U		0.5	"	"	"
Bromomethane (74-83-9)	U		0.5	"	"	"
Chloroethane (75-00-3)	U		0.5	"	"	"
Trichlorofluoromethane (75-69-4)	U		0.5	"	"	"
1,1-Dichloroethene (75-35-4)	U		0.5	"	"	"
Carbon disulfide (75-15-0)	U		0.5	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		0.5	"	"	"
<b>Acetone (67-64-1)</b>	<b>19.6</b>	<b>J</b>	5.0	"	"	"
Methylene chloride (75-09-2)	U		0.5	"	"	"
Methyl acetate (79-20-9)	U		0.5	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		0.5	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		0.5	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		0.5	"	"	"
1,1-Dichloroethane (75-34-3)	U		0.5	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		0.5	"	"	"
1,2-Dichloroethane (107-06-2)	U		0.5	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		0.5	"	"	"
Cyclohexane (110-82-7)	U		0.5	"	"	"
Carbon tetrachloride (56-23-5)	U		0.5	"	"	"
Benzene (71-43-2)	U		0.5	"	"	"
Trichloroethene (79-01-6)	U		0.5	"	"	"
Methylcyclohexane (108-87-2)	U		0.5	"	"	"
1,2-Dichloropropane (78-87-5)	U		0.5	"	"	"
Bromodichloromethane (75-27-4)	U		0.5	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1704018-02

Station ID: ER-170419-1

Batch: B7D2703

Date Collected: 04/19/17

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

### Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		0.5	1	04/25/17	04/25/17
trans-1,3-Dichloropropene (10061-02-6)	U		0.5	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		0.5	"	"	"
Dibromochloromethane (124-48-1)	U		0.5	"	"	"
Bromoform (75-25-2)	U		0.5	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		0.5	"	"	"
Tetrachloroethene (127-18-4)	U		0.5	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		0.5	"	"	"
Chlorobenzene (108-90-7)	U		0.5	"	"	"
Ethylbenzene (100-41-4)	U		0.5	"	"	"
meta-/para-Xylene (na)	U		1.0	"	"	"
ortho-Xylene (95-47-6)	U		0.5	"	"	"
Styrene (100-42-5)	U		0.5	"	"	"
Isopropylbenzene (98-82-8)	U		0.5	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		0.5	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		0.5	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		0.5	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		0.5	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		0.5	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1704018-03

Station ID: TB-170418-1

Batch: B7D2703

Date Collected: 04/18/17

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

### Surrogates

Analyte	Result µg/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	9.12		91.2	86-117	04/25/17	04/25/17
Toluene-d8	10.1		101	85-113	"	"
4-Bromofluorobenzene	9.78		97.8	73-115	"	"

### Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		0.5	1	04/25/17	04/25/17
Chloromethane (74-87-3)	U		0.5	"	"	"
Vinyl chloride (75-01-4)	U		0.5	"	"	"
Bromomethane (74-83-9)	U		0.5	"	"	"
Chloroethane (75-00-3)	U		0.5	"	"	"
Trichlorofluoromethane (75-69-4)	U		0.5	"	"	"
1,1-Dichloroethene (75-35-4)	U		0.5	"	"	"
Carbon disulfide (75-15-0)	U		0.5	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		0.5	"	"	"
Acetone (67-64-1)	U		5.0	"	"	"
Methylene chloride (75-09-2)	U		0.5	"	"	"
Methyl acetate (79-20-9)	U		0.5	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		0.5	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		0.5	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		0.5	"	"	"
1,1-Dichloroethane (75-34-3)	U		0.5	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		0.5	"	"	"
1,2-Dichloroethane (107-06-2)	U		0.5	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		0.5	"	"	"
Cyclohexane (110-82-7)	U		0.5	"	"	"
Carbon tetrachloride (56-23-5)	U		0.5	"	"	"
Benzene (71-43-2)	U		0.5	"	"	"
Trichloroethene (79-01-6)	U		0.5	"	"	"
Methylcyclohexane (108-87-2)	U		0.5	"	"	"
1,2-Dichloropropane (78-87-5)	U		0.5	"	"	"
Bromodichloromethane (75-27-4)	U		0.5	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Volatiles by CLP OLM04.2 - GC/MS (Low Level)

Lab ID: 1704018-03

Station ID: TB-170418-1

Batch: B7D2703

Date Collected: 04/18/17

Sample Type: Liquid

Sample Vol: 25ml

Sample Qualifiers:

### Targets (Continued)

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		0.5	1	04/25/17	04/25/17
trans-1,3-Dichloropropene (10061-02-6)	U		0.5	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		0.5	"	"	"
Dibromochloromethane (124-48-1)	U		0.5	"	"	"
Bromoform (75-25-2)	U		0.5	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		0.5	"	"	"
Tetrachloroethene (127-18-4)	U		0.5	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		0.5	"	"	"
Chlorobenzene (108-90-7)	U		0.5	"	"	"
Ethylbenzene (100-41-4)	U		0.5	"	"	"
meta-/para-Xylene (na)	U		1.0	"	"	"
ortho-Xylene (95-47-6)	U		0.5	"	"	"
Styrene (100-42-5)	U		0.5	"	"	"
Isopropylbenzene (98-82-8)	U		0.5	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		0.5	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		0.5	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		0.5	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		0.5	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		1.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		0.5	"	"	"

This sample was received at pH 2.

Vinyl Chloride and Styrene may be biased low.



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704018-04

Station ID: WPA-SB-17-10.0

Batch: B7D1808

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.493g

Sample Qualifiers:

%Solids: 85.17

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	49.2		109	78-122	04/20/17	04/21/17
Toluene-d8	42.7		94.4	80-125	"	"
4-Bromofluorobenzene	35.4		78.4	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.5	1	04/20/17	04/21/17
Chloromethane (74-87-3)	U		4.5	"	"	"
Vinyl chloride (75-01-4)	U		4.5	"	"	"
Bromomethane (74-83-9)	U		4.5	"	"	"
Chloroethane (75-00-3)	U		4.5	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.5	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.5	"	"	"
Carbon disulfide (75-15-0)	U		4.5	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.5	"	"	"
<b>Acetone (67-64-1)</b>	<b>40.6</b>		9.0	"	"	"
Methylene chloride (75-09-2)	U		4.5	"	"	"
Methyl acetate (79-20-9)	U		4.5	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.5	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.5	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.5	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.5	"	"	"
<b>2-Butanone (78-93-3)</b>	<b>9.1</b>	<b>J</b>	4.5	"	"	"
Chloroform (67-66-3)	U		4.5	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.5	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.5	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>4,930</b>	<b>&gt;CR, J</b>	4.5	"	"	"
Carbon tetrachloride (56-23-5)	U		4.5	"	"	"
<b>Benzene (71-43-2)</b>	<b>185</b>	<b>J</b>	4.5	"	"	"
Trichloroethene (79-01-6)	U		4.5	"	"	"
<b>Methylcyclohexane (108-87-2)</b>	<b>14,000</b>	<b>&gt;CR, J</b>	4.5	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.5	"	"	"
Bromodichloromethane (75-27-4)	U		4.5	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704018-04

Station ID: WPA-SB-17-10.0

Batch: B7D1808

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.493g

Sample Qualifiers:

%Solids: 85.17

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.5	1	04/20/17	04/21/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.5	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.5	"	"	"
Dibromochloromethane (124-48-1)	U		4.5	"	"	"
Bromoform (75-25-2)	U		4.5	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.5	"	"	"
<b>Toluene (108-88-3)</b>	<b>128</b>	<b>J</b>	4.5	"	"	"
Tetrachloroethene (127-18-4)	U		4.5	"	"	"
2-Hexanone (591-78-6)	U		4.5	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.5	"	"	"
Chlorobenzene (108-90-7)	U		4.5	"	"	"
<b>Ethylbenzene (100-41-4)</b>	<b>82.7</b>	<b>J</b>	4.5	"	"	"
<b>meta-/para-Xylene (na)</b>	<b>864</b>	<b>&gt;CR, J</b>	9.0	"	"	"
<b>ortho-Xylene (95-47-6)</b>	<b>109</b>	<b>J</b>	4.5	"	"	"
Styrene (100-42-5)	U		4.5	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>299</b>	<b>J</b>	4.5	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.5	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.5	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.5	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.5	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.5	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.5	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-04

Batch: B7F0902

Sample Type: Solid

Station ID: WPA-SB-17-10.0

Date Collected: 04/19/17

Sample Wt: 5.617g

Sample Qualifiers:

%Solids: 85.17

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	49.1		94.0	85-117	04/28/17	04/28/17
Toluene-d8	51.7		99.0	87-106	"	"
4-Bromofluorobenzene	53.8		103	86-114	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		261	50	04/28/17	04/28/17
Chloromethane (74-87-3)	U		261	"	"	"
Vinyl chloride (75-01-4)	U		105	"	"	"
Bromomethane (74-83-9)	U		261	"	"	"
Chloroethane (75-00-3)	U	RL	314	"	"	"
Trichlorofluoromethane (75-69-4)	U	RL	418	"	"	"
1,1-Dichloroethene (75-35-4)	U	RL	523	"	"	"
Carbon disulfide (75-15-0)	U		105	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	RL	523	"	"	"
Acetone (67-64-1)	U		523	"	"	"
Methylene chloride (75-09-2)	U		105	"	"	"
Methyl acetate (79-20-9)	U		261	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		105	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		105	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		105	"	"	"
1,1-Dichloroethane (75-34-3)	U		105	"	"	"
2-Butanone (78-93-3)	U		261	"	"	"
Chloroform (67-66-3)	U		105	"	"	"
1,2-Dichloroethane (107-06-2)	U		105	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		105	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>1,200</b>	<b>J</b>	105	"	"	"
Carbon tetrachloride (56-23-5)	U		105	"	"	"
Benzene (71-43-2)	U	J	105	"	"	"
Trichloroethene (79-01-6)	U		105	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>5,360</b>	<b>J</b>	105	"	"	"
1,2-Dichloropropane (78-87-5)	U		105	"	"	"
Bromodichloromethane (75-27-4)	U		105	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-04

Station ID: WPA-SB-17-10.0

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 5.617g

Sample Qualifiers:

%Solids: 85.17

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		105	50	04/28/17	04/28/17
trans-1,3-Dichloropropene (10061-02-6)	U		105	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		105	"	"	"
Dibromochloromethane (124-48-1)	U		105	"	"	"
Bromoform (75-25-2)	U		105	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		261	"	"	"
Toluene (108-88-3)	U	J	105	"	"	"
Tetrachloroethene (127-18-4)	U		105	"	"	"
2-Hexanone (591-78-6)	U		261	"	"	"
1,2-Dibromoethane (106-93-4)	U		105	"	"	"
Chlorobenzene (108-90-7)	U		105	"	"	"
Ethylbenzene (100-41-4)	U		105	"	"	"
<b>meta-/para-Xylene (na)</b>	<b>384</b>	<b>J</b>	209	"	"	"
ortho-Xylene (95-47-6)	U	J	105	"	"	"
Styrene (100-42-5)	U		105	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>176</b>	<b>J</b>	105	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		105	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		105	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		105	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		105	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		261	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		261	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704018-04RE1

Station ID: WPA-SB-17-10.0

Batch: B7D1808

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.266g

Sample Qualifiers:

%Solids: 85.17

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	47.8		102	78-122	04/20/17	05/01/17
Toluene-d8	48.0		102	80-125	"	"
4-Bromofluorobenzene	45.6		97.3	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.7	1	04/20/17	05/01/17
Chloromethane (74-87-3)	U		4.7	"	"	"
Vinyl chloride (75-01-4)	U		4.7	"	"	"
Bromomethane (74-83-9)	U		4.7	"	"	"
Chloroethane (75-00-3)	U		4.7	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.7	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.7	"	"	"
Carbon disulfide (75-15-0)	U		4.7	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.7	"	"	"
<b>Acetone (67-64-1)</b>	<b>36.5</b>		9.4	"	"	"
Methylene chloride (75-09-2)	U		4.7	"	"	"
Methyl acetate (79-20-9)	U		4.7	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.7	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.7	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.7	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.7	"	"	"
<b>2-Butanone (78-93-3)</b>	<b>9.0</b>		4.7	"	"	"
Chloroform (67-66-3)	U		4.7	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.7	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.7	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>239</b>	<b>J</b>	4.7	"	"	"
Carbon tetrachloride (56-23-5)	U		4.7	"	"	"
<b>Benzene (71-43-2)</b>	<b>41.8</b>	<b>J</b>	4.7	"	"	"
Trichloroethene (79-01-6)	U		4.7	"	"	"
<b>Methylcyclohexane (108-87-2)</b>	<b>742</b>	<b>&gt;CR, J</b>	4.7	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.7	"	"	"
Bromodichloromethane (75-27-4)	U		4.7	"	"	"



Environmental Protection Agency

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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704018-04RE1**Station ID:** WPA-SB-17-10.0

Batch: B7D1808

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.266g

Sample Qualifiers:

%Solids: 85.17

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.7	1	04/20/17	05/01/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.7	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.7	"	"	"
Dibromochloromethane (124-48-1)	U		4.7	"	"	"
Bromoform (75-25-2)	U		4.7	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.7	"	"	"
<b>Toluene (108-88-3)</b>	<b>15.6</b>	<b>J</b>	4.7	"	"	"
Tetrachloroethene (127-18-4)	U		4.7	"	"	"
2-Hexanone (591-78-6)	U		4.7	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.7	"	"	"
Chlorobenzene (108-90-7)	U		4.7	"	"	"
<b>Ethylbenzene (100-41-4)</b>	<b>7.2</b>	<b>J</b>	4.7	"	"	"
<b>meta-/para-Xylene (na)</b>	<b>52.9</b>	<b>J</b>	9.4	"	"	"
<b>ortho-Xylene (95-47-6)</b>	<b>8.7</b>	<b>J</b>	4.7	"	"	"
Styrene (100-42-5)	U		4.7	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>13.8</b>	<b>J</b>	4.7	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.7	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.7	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.7	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.7	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.7	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.7	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-05

Batch: B7F0902

Sample Type: Solid

Date Collected: 04/19/17

Sample Wt: 6.244g

%Solids: 86.18

Station ID: WPA-SB-17-6.0

Sample Qualifiers:

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	44.6		95.9	85-117	04/28/17	04/28/17
Toluene-d8	45.6		98.2	87-106	"	"
4-Bromofluorobenzene	71.9		155 #	86-114	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		232	50	04/28/17	04/28/17
Chloromethane (74-87-3)	U		232	"	"	"
Vinyl chloride (75-01-4)	U		92.9	"	"	"
Bromomethane (74-83-9)	U		232	"	"	"
Chloroethane (75-00-3)	U	RL	279	"	"	"
Trichlorofluoromethane (75-69-4)	U	RL	372	"	"	"
1,1-Dichloroethene (75-35-4)	U	RL	465	"	"	"
Carbon disulfide (75-15-0)	U		92.9	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	RL	465	"	"	"
Acetone (67-64-1)	U		465	"	"	"
Methylene chloride (75-09-2)	U		92.9	"	"	"
Methyl acetate (79-20-9)	U		232	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		92.9	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		92.9	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		92.9	"	"	"
1,1-Dichloroethane (75-34-3)	U		92.9	"	"	"
2-Butanone (78-93-3)	U		232	"	"	"
Chloroform (67-66-3)	U		92.9	"	"	"
1,2-Dichloroethane (107-06-2)	U		92.9	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		92.9	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>10,900</b>		92.9	"	"	"
Carbon tetrachloride (56-23-5)	U		92.9	"	"	"
<b>Benzene (71-43-2)</b>	<b>93.8</b>		92.9	"	"	"
Trichloroethene (79-01-6)	U		92.9	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>25,700</b>		929	500	"	04/28/17
1,2-Dichloropropane (78-87-5)	U		92.9	50	"	04/28/17
Bromodichloromethane (75-27-4)	U		92.9	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

**Lab ID:** 1704018-05

Batch: B7F0902

Sample Type: Solid

**Station ID:** WPA-SB-17-6.0

Date Collected: 04/19/17

Sample Wt: 6.244g

%Solids: 86.18

Sample Qualifiers:

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		92.9	50	04/28/17	04/28/17
trans-1,3-Dichloropropene (10061-02-6)	U		92.9	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		92.9	"	"	"
Dibromochloromethane (124-48-1)	U		92.9	"	"	"
Bromoform (75-25-2)	U		92.9	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		232	"	"	"
<b>Toluene (108-88-3)</b>	<b>158</b>		92.9	"	"	"
Tetrachloroethene (127-18-4)	U		92.9	"	"	"
2-Hexanone (591-78-6)	U		232	"	"	"
1,2-Dibromoethane (106-93-4)	U		92.9	"	"	"
Chlorobenzene (108-90-7)	U		92.9	"	"	"
<b>Ethylbenzene (100-41-4)</b>	<b>3,520</b>		92.9	"	"	"
<b>meta-/para-Xylene (na)</b>	<b>1,720</b>		186	"	"	"
<b>ortho-Xylene (95-47-6)</b>	<b>156</b>		92.9	"	"	"
Styrene (100-42-5)	U		92.9	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>1,310</b>		92.9	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		92.9	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		92.9	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		92.9	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		92.9	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		232	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		232	"	"	"



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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-06

Station ID: WPA-SB-17-6.0-D

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.502g

Sample Qualifiers:

%Solids: 87.57

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	41.3		94.1	85-117	04/28/17	04/28/17
Toluene-d8	45.1		103	87-106	"	"
4-Bromofluorobenzene	139		317 #	86-114	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		220	50	04/28/17	04/28/17
Chloromethane (74-87-3)	U		220	"	"	"
Vinyl chloride (75-01-4)	U		87.8	"	"	"
Bromomethane (74-83-9)	U		220	"	"	"
Chloroethane (75-00-3)	U	RL	263	"	"	"
Trichlorofluoromethane (75-69-4)	U	RL	351	"	"	"
1,1-Dichloroethene (75-35-4)	U	RL	439	"	"	"
Carbon disulfide (75-15-0)	U		87.8	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	RL	439	"	"	"
Acetone (67-64-1)	U		439	"	"	"
Methylene chloride (75-09-2)	U		87.8	"	"	"
Methyl acetate (79-20-9)	U		220	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		87.8	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		87.8	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		87.8	"	"	"
1,1-Dichloroethane (75-34-3)	U		87.8	"	"	"
2-Butanone (78-93-3)	U		220	"	"	"
Chloroform (67-66-3)	U		87.8	"	"	"
1,2-Dichloroethane (107-06-2)	U		87.8	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		87.8	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>33,100</b>		878	500	"	04/28/17
Carbon tetrachloride (56-23-5)	U		87.8	50	"	04/28/17
<b>Benzene (71-43-2)</b>	<b>357</b>		87.8	"	"	"
Trichloroethene (79-01-6)	U		87.8	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>76,400</b>		878	500	"	04/28/17
1,2-Dichloropropane (78-87-5)	U		87.8	50	"	04/28/17
Bromodichloromethane (75-27-4)	U		87.8	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

**Lab ID:** 1704018-06**Station ID:** WPA-SB-17-6.0-D

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.502g

Sample Qualifiers:

%Solids: 87.57

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		87.8	50	04/28/17	04/28/17
trans-1,3-Dichloropropene (10061-02-6)	U		87.8	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		87.8	"	"	"
Dibromochloromethane (124-48-1)	U		87.8	"	"	"
Bromoform (75-25-2)	U		87.8	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		220	"	"	"
<b>Toluene (108-88-3)</b>	<b>676</b>		87.8	"	"	"
Tetrachloroethene (127-18-4)	U		87.8	"	"	"
2-Hexanone (591-78-6)	U		220	"	"	"
1,2-Dibromoethane (106-93-4)	U		87.8	"	"	"
Chlorobenzene (108-90-7)	U		87.8	"	"	"
<b>Ethylbenzene (100-41-4)</b>	<b>14,000</b>		87.8	"	"	"
<b>meta-/para-Xylene (na)</b>	<b>6,790</b>		176	"	"	"
<b>ortho-Xylene (95-47-6)</b>	<b>760</b>		87.8	"	"	"
Styrene (100-42-5)	U		87.8	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>5,090</b>		87.8	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		87.8	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		87.8	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		87.8	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		87.8	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		220	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		220	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704018-07

Station ID: WPA-SB-18-10.0

Batch: B7D1808

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.125g

Sample Qualifiers:

%Solids: 87.97

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	47.0		101	78-122	04/20/17	04/21/17
Toluene-d8	55.6		120	80-125	"	"
4-Bromofluorobenzene	50.8		109	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.6	1	04/20/17	04/21/17
Chloromethane (74-87-3)	U		4.6	"	"	"
Vinyl chloride (75-01-4)	U		4.6	"	"	"
Bromomethane (74-83-9)	U		4.6	"	"	"
Chloroethane (75-00-3)	U		4.6	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.6	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.6	"	"	"
Carbon disulfide (75-15-0)	U		4.6	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.6	"	"	"
<b>Acetone (67-64-1)</b>	<b>44.7</b>		9.3	"	"	"
Methylene chloride (75-09-2)	U		4.6	"	"	"
Methyl acetate (79-20-9)	U		4.6	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.6	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.6	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.6	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.6	"	"	"
<b>2-Butanone (78-93-3)</b>	<b>11.0</b>		4.6	"	"	"
Chloroform (67-66-3)	U		4.6	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.6	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.6	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>500</b>	>CR	4.6	"	"	"
Carbon tetrachloride (56-23-5)	U		4.6	"	"	"
Benzene (71-43-2)	U	J	4.6	"	"	"
Trichloroethene (79-01-6)	U		4.6	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>2,260</b>	>CR	4.6	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.6	"	"	"
Bromodichloromethane (75-27-4)	U		4.6	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704018-07

Station ID: WPA-SB-18-10.0

Batch: B7D1808

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.125g

Sample Qualifiers:

%Solids: 87.97

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.6	1	04/20/17	04/21/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.6	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.6	"	"	"
Dibromochloromethane (124-48-1)	U		4.6	"	"	"
Bromoform (75-25-2)	U		4.6	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.6	"	"	"
<b>Toluene (108-88-3)</b>	<b>10.7</b>	<b>J</b>	4.6	"	"	"
Tetrachloroethene (127-18-4)	U		4.6	"	"	"
2-Hexanone (591-78-6)	U		4.6	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.6	"	"	"
Chlorobenzene (108-90-7)	U		4.6	"	"	"
<b>Ethylbenzene (100-41-4)</b>	<b>686</b>	<b>&gt;CR</b>	4.6	"	"	"
<b>meta-/para-Xylene (na)</b>	<b>707</b>		9.3	"	"	"
<b>ortho-Xylene (95-47-6)</b>	<b>13.3</b>	<b>J</b>	4.6	"	"	"
Styrene (100-42-5)	U		4.6	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>288</b>	<b>J</b>	4.6	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.6	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.6	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.6	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.6	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.6	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.6	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-07

Station ID: WPA-SB-18-10.0

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.377g

Sample Qualifiers:

%Solids: 87.97

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	40.0		89.8	85-117	04/28/17	04/28/17
Toluene-d8	43.4		97.4	87-106	"	"
4-Bromofluorobenzene	47.5		107	86-114	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		223	50	04/28/17	04/28/17
Chloromethane (74-87-3)	U		223	"	"	"
Vinyl chloride (75-01-4)	U		89.1	"	"	"
Bromomethane (74-83-9)	U		223	"	"	"
Chloroethane (75-00-3)	U	RL	668	"	"	"
Trichlorofluoromethane (75-69-4)	U	RL	357	"	"	"
1,1-Dichloroethene (75-35-4)	U	RL	446	"	"	"
Carbon disulfide (75-15-0)	U		89.1	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	RL	446	"	"	"
Acetone (67-64-1)	U		446	"	"	"
Methylene chloride (75-09-2)	U		89.1	"	"	"
Methyl acetate (79-20-9)	U		223	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		89.1	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		89.1	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		89.1	"	"	"
1,1-Dichloroethane (75-34-3)	U		89.1	"	"	"
2-Butanone (78-93-3)	U		223	"	"	"
Chloroform (67-66-3)	U		89.1	"	"	"
1,2-Dichloroethane (107-06-2)	U		89.1	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		89.1	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>320</b>		89.1	"	"	"
Carbon tetrachloride (56-23-5)	U		89.1	"	"	"
Benzene (71-43-2)	U		89.1	"	"	"
Trichloroethene (79-01-6)	U		89.1	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>1,290</b>		89.1	"	"	"
1,2-Dichloropropane (78-87-5)	U		89.1	"	"	"
Bromodichloromethane (75-27-4)	U		89.1	"	"	"



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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-07

Batch: B7F0902

Sample Type: Solid

Station ID: WPA-SB-18-10.0

Date Collected: 04/19/17

Sample Wt: 6.377g

%Solids: 87.97

Sample Qualifiers:

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		89.1	50	04/28/17	04/28/17
trans-1,3-Dichloropropene (10061-02-6)	U		89.1	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		89.1	"	"	"
Dibromochloromethane (124-48-1)	U		89.1	"	"	"
Bromoform (75-25-2)	U		89.1	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		223	"	"	"
Toluene (108-88-3)	U		89.1	"	"	"
Tetrachloroethene (127-18-4)	U		89.1	"	"	"
2-Hexanone (591-78-6)	U		223	"	"	"
1,2-Dibromoethane (106-93-4)	U		89.1	"	"	"
Chlorobenzene (108-90-7)	U		89.1	"	"	"
Ethylbenzene (100-41-4)	<b>590</b>		89.1	"	"	"
meta-/para-Xylene (na)	<b>586</b>		178	"	"	"
ortho-Xylene (95-47-6)	U		89.1	"	"	"
Styrene (100-42-5)	U		89.1	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>250</b>	<b>J</b>	89.1	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		89.1	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		89.1	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		89.1	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		89.1	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		223	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		223	"	"	"



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## Volatiles by CLP OLM04.2/5035 - GC/MS

Lab ID: 1704018-07RE1

Station ID: WPA-SB-18-10.0

Batch: B7D1808

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.325g

Sample Qualifiers:

%Solids: 87.97

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	46.5		104	78-122	04/20/17	05/01/17
Toluene-d8	54.1		120	80-125	"	"
4-Bromofluorobenzene	70.9		158 #	69-115	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		4.5	1	04/20/17	05/01/17
Chloromethane (74-87-3)	U		4.5	"	"	"
Vinyl chloride (75-01-4)	U		4.5	"	"	"
Bromomethane (74-83-9)	U		4.5	"	"	"
Chloroethane (75-00-3)	U		4.5	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.5	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.5	"	"	"
Carbon disulfide (75-15-0)	U		4.5	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.5	"	"	"
<b>Acetone (67-64-1)</b>	<b>47.0</b>		9.0	"	"	"
Methylene chloride (75-09-2)	U		4.5	"	"	"
Methyl acetate (79-20-9)	U		4.5	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		4.5	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		4.5	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		4.5	"	"	"
1,1-Dichloroethane (75-34-3)	U		4.5	"	"	"
<b>2-Butanone (78-93-3)</b>	<b>9.6</b>		4.5	"	"	"
Chloroform (67-66-3)	U		4.5	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.5	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.5	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>895</b>	>CR	4.5	"	"	"
Carbon tetrachloride (56-23-5)	U		4.5	"	"	"
<b>Benzene (71-43-2)</b>	<b>6.4</b>	J	4.5	"	"	"
Trichloroethene (79-01-6)	U		4.5	"	"	"
<b>Methylcyclohexane (108-87-2)</b>	<b>3,120</b>	>CR	4.5	"	"	"
1,2-Dichloropropane (78-87-5)	U		4.5	"	"	"
Bromodichloromethane (75-27-4)	U		4.5	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS

**Lab ID:** 1704018-07RE1**Station ID:** WPA-SB-18-10.0

Batch: B7D1808

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.325g

Sample Qualifiers:

%Solids: 87.97

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.5	1	04/20/17	05/01/17
trans-1,3-Dichloropropene (10061-02-6)	U		4.5	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.5	"	"	"
Dibromochloromethane (124-48-1)	U		4.5	"	"	"
Bromoform (75-25-2)	U		4.5	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		4.5	"	"	"
<b>Toluene (108-88-3)</b>	<b>23.0</b>	<b>J</b>	4.5	"	"	"
Tetrachloroethene (127-18-4)	U		4.5	"	"	"
2-Hexanone (591-78-6)	U		4.5	"	"	"
1,2-Dibromoethane (106-93-4)	U		4.5	"	"	"
Chlorobenzene (108-90-7)	U		4.5	"	"	"
<b>Ethylbenzene (100-41-4)</b>	<b>1,200</b>	<b>&gt;CR</b>	4.5	"	"	"
<b>meta-/para-Xylene (na)</b>	<b>1,240</b>	<b>&gt;CR</b>	9.0	"	"	"
<b>ortho-Xylene (95-47-6)</b>	<b>21.7</b>	<b>J</b>	4.5	"	"	"
Styrene (100-42-5)	U		4.5	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>391</b>	<b>J</b>	4.5	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.5	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.5	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.5	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.5	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		4.5	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		4.5	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-08

Station ID: WPA-SB-18-13.0

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.335g

Sample Qualifiers:

%Solids: 85.69

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	41.0		89.1	85-117	04/28/17	04/28/17
Toluene-d8	43.8		95.2	87-106	"	"
4-Bromofluorobenzene	56.7		123 #	86-114	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		230	50	04/28/17	04/28/17
Chloromethane (74-87-3)	U		230	"	"	"
Vinyl chloride (75-01-4)	U		92.1	"	"	"
Bromomethane (74-83-9)	U		230	"	"	"
Chloroethane (75-00-3)	U	RL	276	"	"	"
Trichlorofluoromethane (75-69-4)	U	RL	368	"	"	"
1,1-Dichloroethene (75-35-4)	U	RL	461	"	"	"
Carbon disulfide (75-15-0)	U		92.1	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	RL	461	"	"	"
Acetone (67-64-1)	U		461	"	"	"
Methylene chloride (75-09-2)	U		92.1	"	"	"
Methyl acetate (79-20-9)	U		230	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		92.1	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		92.1	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		92.1	"	"	"
1,1-Dichloroethane (75-34-3)	U		92.1	"	"	"
2-Butanone (78-93-3)	U		230	"	"	"
Chloroform (67-66-3)	U		92.1	"	"	"
1,2-Dichloroethane (107-06-2)	U		92.1	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		92.1	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>8,780</b>		92.1	"	"	"
Carbon tetrachloride (56-23-5)	U		92.1	"	"	"
<b>Benzene (71-43-2)</b>	<b>105</b>		92.1	"	"	"
Trichloroethene (79-01-6)	U		92.1	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>24,000</b>		921	500	"	04/28/17
1,2-Dichloropropane (78-87-5)	U		92.1	50	"	04/28/17
Bromodichloromethane (75-27-4)	U		92.1	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Volatiles by CLP OLM04.2 - GC/MS

**Lab ID:** 1704018-08**Station ID:** WPA-SB-18-13.0

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.335g

Sample Qualifiers:

%Solids: 85.69

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		92.1	50	04/28/17	04/28/17
trans-1,3-Dichloropropene (10061-02-6)	U		92.1	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		92.1	"	"	"
Dibromochloromethane (124-48-1)	U		92.1	"	"	"
Bromoform (75-25-2)	U		92.1	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		230	"	"	"
<b>Toluene (108-88-3)</b>	<b>312</b>		92.1	"	"	"
Tetrachloroethene (127-18-4)	U		92.1	"	"	"
2-Hexanone (591-78-6)	U		230	"	"	"
1,2-Dibromoethane (106-93-4)	U		92.1	"	"	"
Chlorobenzene (108-90-7)	U		92.1	"	"	"
<b>Ethylbenzene (100-41-4)</b>	<b>5,690</b>		92.1	"	"	"
<b>meta-/para-Xylene (na)</b>	<b>6,090</b>		184	"	"	"
<b>ortho-Xylene (95-47-6)</b>	<b>290</b>		92.1	"	"	"
Styrene (100-42-5)	U		92.1	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>1,050</b>		92.1	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		92.1	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		92.1	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		92.1	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		92.1	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		230	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		230	"	"	"



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# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-09

Station ID: WPA-SB-20-10.0

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.375g

Sample Qualifiers:

%Solids: 71.39

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	50.4		91.7	85-117	04/28/17	04/28/17
Toluene-d8	53.8		98.0	87-106	"	"
4-Bromofluorobenzene	56.8		103	86-114	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		275	50	04/28/17	04/28/17
Chloromethane (74-87-3)	U		275	"	"	"
Vinyl chloride (75-01-4)	U		110	"	"	"
Bromomethane (74-83-9)	U		275	"	"	"
Chloroethane (75-00-3)	U	RL	330	"	"	"
Trichlorofluoromethane (75-69-4)	U	RL	439	"	"	"
1,1-Dichloroethene (75-35-4)	U	RL	549	"	"	"
Carbon disulfide (75-15-0)	U		110	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	RL	549	"	"	"
Acetone (67-64-1)	U		549	"	"	"
Methylene chloride (75-09-2)	U		110	"	"	"
Methyl acetate (79-20-9)	U		275	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		110	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		110	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		110	"	"	"
1,1-Dichloroethane (75-34-3)	U		110	"	"	"
2-Butanone (78-93-3)	U		275	"	"	"
Chloroform (67-66-3)	U		110	"	"	"
1,2-Dichloroethane (107-06-2)	U		110	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		110	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>2,270</b>		110	"	"	"
Carbon tetrachloride (56-23-5)	U		110	"	"	"
<b>Benzene (71-43-2)</b>	<b>132</b>		110	"	"	"
Trichloroethene (79-01-6)	U		110	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>5,840</b>		110	"	"	"
1,2-Dichloropropane (78-87-5)	U		110	"	"	"
Bromodichloromethane (75-27-4)	U		110	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-09

Station ID: WPA-SB-20-10.0

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.375g

Sample Qualifiers:

%Solids: 71.39

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		110	50	04/28/17	04/28/17
trans-1,3-Dichloropropene (10061-02-6)	U		110	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		110	"	"	"
Dibromochloromethane (124-48-1)	U		110	"	"	"
Bromoform (75-25-2)	U		110	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		275	"	"	"
Toluene (108-88-3)	U		110	"	"	"
Tetrachloroethene (127-18-4)	U		110	"	"	"
2-Hexanone (591-78-6)	U		275	"	"	"
1,2-Dibromoethane (106-93-4)	U		110	"	"	"
Chlorobenzene (108-90-7)	U		110	"	"	"
Ethylbenzene (100-41-4)	1,100		110	"	"	"
meta-/para-Xylene (na)	632		220	"	"	"
ortho-Xylene (95-47-6)	U		110	"	"	"
Styrene (100-42-5)	U		110	"	"	"
Isopropylbenzene (98-82-8)	315		110	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		110	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		110	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		110	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		110	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		275	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		275	"	"	"



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## Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1704018-10

Station ID: WPA-SB-20-22.0

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.11g

Sample Qualifiers:

%Solids: 86.42

### Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	42.7		90.1	85-117	04/28/17	04/28/17
Toluene-d8	46.2		97.6	87-106	"	"
4-Bromofluorobenzene	55.4		117 #	86-114	"	"

### Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		237	50	04/28/17	04/28/17
Chloromethane (74-87-3)	U		237	"	"	"
Vinyl chloride (75-01-4)	U		94.7	"	"	"
Bromomethane (74-83-9)	U		237	"	"	"
Chloroethane (75-00-3)	U	RL	284	"	"	"
Trichlorofluoromethane (75-69-4)	U	RL	379	"	"	"
1,1-Dichloroethene (75-35-4)	U	RL	473	"	"	"
Carbon disulfide (75-15-0)	U		94.7	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	RL	473	"	"	"
Acetone (67-64-1)	U		473	"	"	"
Methylene chloride (75-09-2)	U		94.7	"	"	"
Methyl acetate (79-20-9)	U		237	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		94.7	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		94.7	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		94.7	"	"	"
1,1-Dichloroethane (75-34-3)	U		94.7	"	"	"
2-Butanone (78-93-3)	U		237	"	"	"
Chloroform (67-66-3)	U		94.7	"	"	"
1,2-Dichloroethane (107-06-2)	U		94.7	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		94.7	"	"	"
<b>Cyclohexane (110-82-7)</b>	<b>7,440</b>		94.7	"	"	"
Carbon tetrachloride (56-23-5)	U		94.7	"	"	"
<b>Benzene (71-43-2)</b>	<b>996</b>		94.7	"	"	"
Trichloroethene (79-01-6)	U		94.7	"	"	"
<b>Methylecyclohexane (108-87-2)</b>	<b>16,500</b>		94.7	"	"	"
1,2-Dichloropropane (78-87-5)	U		94.7	"	"	"
Bromodichloromethane (75-27-4)	U		94.7	"	"	"



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS

**Lab ID:** 1704018-10**Station ID:** WPA-SB-20-22.0

Batch: B7F0902

Date Collected: 04/19/17

Sample Type: Solid

Sample Wt: 6.11g

Sample Qualifiers:

%Solids: 86.42

### Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		94.7	50	04/28/17	04/28/17
trans-1,3-Dichloropropene (10061-02-6)	U		94.7	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		94.7	"	"	"
Dibromochloromethane (124-48-1)	U		94.7	"	"	"
Bromoform (75-25-2)	U		94.7	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		237	"	"	"
<b>Toluene (108-88-3)</b>	<b>434</b>		94.7	"	"	"
Tetrachloroethene (127-18-4)	U		94.7	"	"	"
2-Hexanone (591-78-6)	U		237	"	"	"
1,2-Dibromoethane (106-93-4)	U		94.7	"	"	"
Chlorobenzene (108-90-7)	U		94.7	"	"	"
<b>Ethylbenzene (100-41-4)</b>	<b>3,260</b>		94.7	"	"	"
<b>meta-/para-Xylene (na)</b>	<b>3,310</b>		189	"	"	"
<b>ortho-Xylene (95-47-6)</b>	<b>276</b>		94.7	"	"	"
Styrene (100-42-5)	U		94.7	"	"	"
<b>Isopropylbenzene (98-82-8)</b>	<b>704</b>		94.7	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		94.7	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		94.7	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		94.7	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		94.7	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		237	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		237	"	"	"



Environmental Protection Agency

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## Percent Solids - Quality Control

### Duplicate (B7D1806-DUP1)

Source: 1704016-02

Prepared: 4/18/2017 Analyzed: 4/19/2017

#### Targets

ANALYTE	Result %	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
% Solids	88.06				88.59	0.60	20

### Duplicate (B7D1907-DUP1)

Source: 1704017-01

Prepared: 4/19/2017 Analyzed: 4/20/2017

#### Targets

ANALYTE	Result %	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
% Solids	81.73				80.95	0.95	20

### Duplicate (B7D1907-DUP2)

Source: 1704017-21

Prepared: 4/19/2017 Analyzed: 4/20/2017

#### Targets

ANALYTE	Result %	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
% Solids	89.83				90.56	0.81	20

### Duplicate (B7D2503-DUP1)

Source: 1704018-10

Prepared: 4/25/2017 Analyzed: 4/25/2017

#### Targets

ANALYTE	Result %	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
% Solids	86.21				86.42	0.24	20



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B7F0902

Sample Type: Solid

### Blank (B7F0902-BLK1)

Prepared: 4/28/2017 Analyzed: 4/28/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	49.0		49.9	98.2	85-117
Toluene-d8	50.0		49.9	100	87-106
4-Bromofluorobenzene	49.0		49.9	98.0	86-114

### Blank (B7F0902-BLK1)

Prepared: 4/28/2017 Analyzed: 4/28/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		250
Chloromethane	U		250
Vinyl chloride	U		99.9
Bromomethane	U		250
Chloroethane	U		99.9
Trichlorofluoromethane	U		99.9
1,1-Dichloroethene	U		99.9
Carbon disulfide	U		99.9
1,1,2-Trichloro-1,2,2-trifluoroethane	U		99.9
Acetone	U		499
Methylene chloride	U		99.9
Methyl acetate	U		250
trans-1,2-Dichloroethene	U		99.9
cis-1,2-Dichloroethene	U		99.9
Methyl tert-butyl ether	U		99.9
1,1-Dichloroethane	U		99.9
2-Butanone	U		250
Chloroform	U		99.9
1,2-Dichloroethane	U		99.9
1,1,1-Trichloroethane	U		99.9
Cyclohexane	U		99.9
Carbon tetrachloride	U		99.9
Benzene	U		99.9



# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

## Volatiles by CLP OLM04.2 - GC/MS - Quality Control

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**Batch: B7F0902****Sample Type: Solid**

### Blank (B7F0902-BLK1)

Prepared: 4/28/2017 Analyzed: 4/28/2017

#### Targets (Continued)

ANALYTE	Result μg/Kg dry	Analyte Qualifiers	Reporting Limit
Trichloroethene	U		99.9
Methylcyclohexane	U		99.9
1,2-Dichloropropane	U		99.9
Bromodichloromethane	U		99.9
cis-1,3-Dichloropropene	U		99.9
trans-1,3-Dichloropropene	U		99.9
1,1,2-Trichloroethane	U		99.9
Dibromochloromethane	U		99.9
Bromoform	U		99.9
4-Methyl-2-pentanone	U		250
Toluene	U		99.9
Tetrachloroethene	U		99.9
2-Hexanone	U		250
1,2-Dibromoethane	U		99.9
Chlorobenzene	U		99.9
Ethylbenzene	U		99.9
meta-/para-Xylene	U		200
ortho-Xylene	U		99.9
Styrene	U		99.9
Isopropylbenzene	U		99.9
1,1,2,2-Tetrachloroethane	U		99.9
1,3-Dichlorobenzene	U		99.9
1,4-Dichlorobenzene	U		99.9
1,2-Dichlorobenzene	U		99.9
1,2-Dibromo-3-chloropropane	U		250
1,2,4-Trichlorobenzene	U		250



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B7F0902

Sample Type: Solid

### LCS (B7F0902-BS1)

Prepared: 4/28/2017 Analyzed: 4/28/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	50.5		50.0	101	85-117
Toluene-d8	51.9		50.0	104	87-106
4-Bromofluorobenzene	51.9		50.0	104	86-114

### LCS (B7F0902-BS1)

Prepared: 4/28/2017 Analyzed: 4/28/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	2,240		250	2,500	89.4	44-134
Chloromethane	2,260		250	2,500	90.3	63-138
Vinyl chloride	2,240		100	2,500	89.5	66-138
Bromomethane	1,320		250	2,500	52.8	46-108
Chloroethane	790		100	2,500	31.6 #	51-148
Trichlorofluoromethane	602		100	2,500	24.1 #	42-140
1,1-Dichloroethene	442		100	2,500	17.7 #	70-128
Carbon disulfide	1,850		100	2,500	74.1	66-122
1,1,2-Trichloro-1,2,2-trifluoroethane	469		100	2,500	18.8 #	70-129
Acetone	1,920		500	2,500	76.7	46-138
Methylene chloride	2,290		100	2,500	91.8	75-122
Methyl acetate	2,100		250	2,500	84.0	72-120
trans-1,2-Dichloroethene	2,310		100	2,500	92.4	77-123
cis-1,2-Dichloroethene	2,270		100	2,500	90.7	80-120
Methyl tert-butyl ether	2,220		100	2,500	88.9	73-122
1,1-Dichloroethane	2,370		100	2,500	94.9	77-124
2-Butanone	1,770		250	2,500	70.8	61-130
Chloroform	2,260		100	2,500	90.2	77-126
1,2-Dichloroethane	2,250		100	2,500	90.0	81-119
1,1,1-Trichloroethane	2,290		100	2,500	91.6	76-123
Cyclohexane	2,220		100	2,500	88.7	78-118
Carbon tetrachloride	2,140		100	2,500	85.7	77-123
Benzene	2,250		100	2,500	89.8	79-123



# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS - Quality Control

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**Batch: B7F0902****Sample Type: Solid**

### LCS (B7F0902-BS1)

Prepared: 4/28/2017 Analyzed: 4/28/2017

#### Targets (Continued)

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Trichloroethene	2,300		100	2,500	91.8	79-127
Methylcyclohexane	2,290		100	2,500	91.7	77-123
1,2-Dichloropropane	2,350		100	2,500	94.1	79-126
Bromodichloromethane	2,250		100	2,500	89.9	77-126
cis-1,3-Dichloropropene	2,250		100	2,500	89.8	75-127
trans-1,3-Dichloropropene	2,130		100	2,500	85.0	72-129
1,1,2-Trichloroethane	2,310		100	2,500	92.5	82-123
Dibromochloromethane	2,180		100	2,500	87.3	75-125
Bromoform	2,150		100	2,500	86.1	71-129
4-Methyl-2-pentanone	2,290		250	2,500	91.7	70-127
Toluene	2,270		100	2,500	90.9	78-125
Tetrachloroethene	2,290		100	2,500	91.6	76-128
2-Hexanone	2,250		250	2,500	90.0	68-133
1,2-Dibromoethane	2,300		100	2,500	92.1	76-123
Chlorobenzene	2,270		100	2,500	90.6	81-123
Ethylbenzene	2,220		100	2,500	88.9	76-128
meta-/para-Xylene	4,520		200	5,000	90.3	79-127
ortho-Xylene	2,320		100	2,500	92.7	76-130
Styrene	2,290		100	2,500	91.4	77-127
Isopropylbenzene	2,270		100	2,500	90.8	71-125
1,1,2,2-Tetrachloroethane	2,300		100	2,500	92.2	77-125
1,3-Dichlorobenzene	2,270		100	2,500	90.7	80-128
1,4-Dichlorobenzene	2,260		100	2,500	90.4	79-127
1,2-Dichlorobenzene	2,300		100	2,500	92.1	81-128
1,2-Dibromo-3-chloropropane	2,100		250	2,500	84.2	71-126
1,2,4-Trichlorobenzene	2,360		250	2,500	94.6	76-131



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

Batch: B7D2703

Sample Type: Liquid

### Blank (B7D2703-BLK1)

Prepared: 4/25/2017 Analyzed: 4/25/2017

#### Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	9.16		10.0	91.6	86-117
Toluene-d8	9.70		10.0	97.0	85-113
4-Bromofluorobenzene	9.37		10.0	93.7	73-115

### Blank (B7D2703-BLK1)

Prepared: 4/25/2017 Analyzed: 4/25/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		0.5
Chloromethane	U		0.5
Vinyl chloride	U		0.5
Bromomethane	U		0.5
Chloroethane	U		0.5
Trichlorofluoromethane	U		0.5
1,1-Dichloroethene	U		0.5
Carbon disulfide	U		0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	U		0.5
Acetone	U		5.0
Methylene chloride	U		0.5
Methyl acetate	U		0.5
trans-1,2-Dichloroethene	U		0.5
cis-1,2-Dichloroethene	U		0.5
Methyl tert-butyl ether	U		0.5
1,1-Dichloroethane	U		0.5
2-Butanone	U		5.0
Chloroform	U		0.5
1,2-Dichloroethane	U		0.5
1,1,1-Trichloroethane	U		0.5
Cyclohexane	U		0.5
Carbon tetrachloride	U		0.5
Benzene	U		0.5



# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

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**Batch: B7D2703****Sample Type: Liquid**

### Blank (B7D2703-BLK1)

Prepared: 4/25/2017 Analyzed: 4/25/2017

#### Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Trichloroethene	U		0.5
Methylcyclohexane	U		0.5
1,2-Dichloropropane	U		0.5
Bromodichloromethane	U		0.5
cis-1,3-Dichloropropene	U		0.5
trans-1,3-Dichloropropene	U		0.5
1,1,2-Trichloroethane	U		0.5
Dibromochloromethane	U		0.5
Bromoform	U		0.5
4-Methyl-2-pentanone	U		5.0
Toluene	U		0.5
Tetrachloroethene	U		0.5
2-Hexanone	U		5.0
1,2-Dibromoethane	U		0.5
Chlorobenzene	U		0.5
Ethylbenzene	U		0.5
meta-/para-Xylene	U		1.0
ortho-Xylene	U		0.5
Styrene	U		0.5
Isopropylbenzene	U		0.5
1,1,2,2-Tetrachloroethane	U		0.5
1,3-Dichlorobenzene	U		0.5
1,4-Dichlorobenzene	U		0.5
1,2-Dichlorobenzene	U		0.5
1,2-Dibromo-3-chloropropane	U		1.0
1,2,4-Trichlorobenzene	U		0.5



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## Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

Batch: B7D2703

Sample Type: Liquid

### LCS (B7D2703-BS1)

Prepared: 4/25/2017 Analyzed: 4/25/2017

#### Surrogates

ANALYTE	Result µg/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	9.76		10.0	97.6	86-117
Toluene-d8	9.98		10.0	99.8	85-113
4-Bromofluorobenzene	9.97		10.0	99.7	73-115

### LCS (B7D2703-BS1)

Prepared: 4/25/2017 Analyzed: 4/25/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	8.9		0.5	10.0	88.8	69-132
Chloromethane	9.2		0.5	10.0	92.2	73-130
Vinyl chloride	9.8		0.5	10.0	98.3	76-130
Bromomethane	9.6		0.5	10.0	95.6	75-129
Chloroethane	8.4		0.5	10.0	84.2	75-121
Trichlorofluoromethane	9.5		0.5	10.0	95.2	79-130
1,1-Dichloroethene	9.6		0.5	10.0	95.7	76-127
Carbon disulfide	9.2		0.5	10.0	92.5	74-122
1,1,2-Trichloro-1,2,2-trifluoroethane	9.9		0.5	10.0	99.1	79-126
Acetone	12.4		5.0	10.0	124	44-140
Methylene chloride	9.6		0.5	10.0	95.6	79-122
Methyl acetate	9.5		0.5	10.0	95.4	78-118
trans-1,2-Dichloroethene	9.9		0.5	10.0	99.3	78-123
cis-1,2-Dichloroethene	10.1		0.5	10.0	101	80-120
Methyl tert-butyl ether	10.0		0.5	10.0	99.9	78-124
1,1-Dichloroethane	10.6		0.5	10.0	106	80-122
2-Butanone	12.6		5.0	10.0	126	71-127
Chloroform	10.1		0.5	10.0	101	81-121
1,2-Dichloroethane	9.9		0.5	10.0	99.3	80-121
1,1,1-Trichloroethane	10.7		0.5	10.0	107	80-120
Cyclohexane	11.4		0.5	10.0	114	77-120
Carbon tetrachloride	10.0		0.5	10.0	100	78-121
Benzene	9.8		0.5	10.0	98.0	81-119



# Region 6 Laboratory

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## Volatiles by CLP OLM04.2 - GC/MS (Low Level) - Quality Control

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**Batch: B7D2703****Sample Type: Liquid**

### LCS (B7D2703-BS1)

Prepared: 4/25/2017 Analyzed: 4/25/2017

#### Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Trichloroethene	10.0		0.5	10.0	100	80-120
Methylcyclohexane	9.8		0.5	10.0	98.4	79-122
1,2-Dichloropropane	10.2		0.5	10.0	102	81-121
Bromodichloromethane	9.9		0.5	10.0	98.6	80-121
cis-1,3-Dichloropropene	10.0		0.5	10.0	99.6	79-119
trans-1,3-Dichloropropene	9.2		0.5	10.0	91.6	78-119
1,1,2-Trichloroethane	9.8		0.5	10.0	98.2	80-120
Dibromochloromethane	9.6		0.5	10.0	96.3	80-118
Bromoform	9.6		0.5	10.0	95.6	79-119
4-Methyl-2-pentanone	10.2		5.0	10.0	102	77-121
Toluene	9.7		0.5	10.0	97.4	81-118
Tetrachloroethene	9.7		0.5	10.0	97.0	80-120
2-Hexanone	11.3		5.0	10.0	113	77-122
1,2-Dibromoethane	9.9		0.5	10.0	98.6	81-118
Chlorobenzene	9.7		0.5	10.0	97.0	81-118
Ethylbenzene	9.6		0.5	10.0	95.8	80-118
meta-/para-Xylene	19.5		1.0	20.0	97.6	81-117
ortho-Xylene	9.8		0.5	10.0	98.5	81-118
Styrene	9.8		0.5	10.0	97.8	79-118
Isopropylbenzene	9.7		0.5	10.0	97.3	74-124
1,1,2,2-Tetrachloroethane	9.6		0.5	10.0	96.5	79-119
1,3-Dichlorobenzene	9.5		0.5	10.0	95.3	81-118
1,4-Dichlorobenzene	9.5		0.5	10.0	95.0	80-117
1,2-Dichlorobenzene	9.6		0.5	10.0	95.5	79-119
1,2-Dibromo-3-chloropropane	9.1		1.0	10.0	90.7	77-123
1,2,4-Trichlorobenzene	9.7		0.5	10.0	96.8	78-128



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### Blank (B7D1808-BLK1)

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	47.1		49.9	94.4	78-122
Toluene-d8	49.2		49.9	98.6	80-125
4-Bromofluorobenzene	49.8		49.9	99.7	69-115

### Blank (B7D1808-BLK1)

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		5.0
Bromomethane	U		5.0
Chloroethane	U		5.0
Trichlorofluoromethane	U		5.0
1,1-Dichloroethene	U		5.0
Carbon disulfide	U		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		5.0
<b>Acetone</b>	<b>29.2</b>		10.0
Methylene chloride	U		5.0
Methyl acetate	U		5.0
trans-1,2-Dichloroethene	U		5.0
cis-1,2-Dichloroethene	U		5.0
Methyl tert-butyl ether	U		5.0
1,1-Dichloroethane	U		5.0
<b>2-Butanone</b>	<b>14.0</b>		5.0
Chloroform	U		5.0
1,2-Dichloroethane	U		5.0
1,1,1-Trichloroethane	U		5.0
Cyclohexane	U		5.0
Carbon tetrachloride	U		5.0
Benzene	U		5.0



# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

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**Batch: B7D1808****Sample Type: Solid**

### Blank (B7D1808-BLK1)

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Targets (Continued)

ANALYTE	Result μg/Kg dry	Analyte Qualifiers	Reporting Limit
Trichloroethene	U		5.0
Methylcyclohexane	U		5.0
1,2-Dichloropropane	U		5.0
Bromodichloromethane	U		5.0
cis-1,3-Dichloropropene	U		5.0
trans-1,3-Dichloropropene	U		5.0
1,1,2-Trichloroethane	U		5.0
Dibromochloromethane	U		5.0
Bromoform	U		5.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		5.0
Tetrachloroethene	U		5.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		5.0
Chlorobenzene	U		5.0
Ethylbenzene	U		5.0
meta-/para-Xylene	U		10.0
ortho-Xylene	U		5.0
Styrene	U		5.0
Isopropylbenzene	U		5.0
1,1,2,2-Tetrachloroethane	U		5.0
1,3-Dichlorobenzene	U		5.0
1,4-Dichlorobenzene	U		5.0
1,2-Dichlorobenzene	U		5.0
1,2-Dibromo-3-chloropropane	U		5.0
1,2,4-Trichlorobenzene	U		5.0



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### Blank (B7D1808-BLK2)

Prepared: 4/19/2017 Analyzed: 4/20/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	50.2		50.0	100	78-122
Toluene-d8	47.3		50.0	94.6	80-125
4-Bromofluorobenzene	47.7		50.0	95.5	69-115

### Blank (B7D1808-BLK2)

Prepared: 4/19/2017 Analyzed: 4/20/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		5.0
Bromomethane	U		5.0
Chloroethane	U		5.0
Trichlorofluoromethane	U		5.0
1,1-Dichloroethene	U		5.0
Carbon disulfide	U		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		5.0
Acetone	U		10.0
Methylene chloride	U		5.0
Methyl acetate	U		5.0
trans-1,2-Dichloroethene	U		5.0
cis-1,2-Dichloroethene	U		5.0
Methyl tert-butyl ether	U		5.0
1,1-Dichloroethane	U		5.0
2-Butanone	U		5.0
Chloroform	U		5.0
1,2-Dichloroethane	U		5.0
1,1,1-Trichloroethane	U		5.0
Cyclohexane	U		5.0
Carbon tetrachloride	U		5.0
Benzene	U		5.0



# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

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**Batch: B7D1808****Sample Type: Solid**

### Blank (B7D1808-BLK2)

Prepared: 4/19/2017 Analyzed: 4/20/2017

#### Targets (Continued)

ANALYTE	Result μg/Kg dry	Analyte Qualifiers	Reporting Limit
Trichloroethene	U		5.0
Methylcyclohexane	U		5.0
1,2-Dichloropropane	U		5.0
Bromodichloromethane	U		5.0
cis-1,3-Dichloropropene	U		5.0
trans-1,3-Dichloropropene	U		5.0
1,1,2-Trichloroethane	U		5.0
Dibromochloromethane	U		5.0
Bromoform	U		5.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		5.0
Tetrachloroethene	U		5.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		5.0
Chlorobenzene	U		5.0
Ethylbenzene	U		5.0
meta-/para-Xylene	U		10.0
ortho-Xylene	U		5.0
Styrene	U		5.0
Isopropylbenzene	U		5.0
1,1,2,2-Tetrachloroethane	U		5.0
1,3-Dichlorobenzene	U		5.0
1,4-Dichlorobenzene	U		5.0
1,2-Dichlorobenzene	U		5.0
1,2-Dibromo-3-chloropropane	U		5.0
1,2,4-Trichlorobenzene	U		5.0



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### Blank (B7D1808-BLK3)

Prepared: 4/20/2017 Analyzed: 4/21/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	50.8		50.0	102	78-122
Toluene-d8	50.6		50.0	101	80-125
4-Bromofluorobenzene	49.4		50.0	98.8	69-115

### Blank (B7D1808-BLK3)

Prepared: 4/20/2017 Analyzed: 4/21/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		5.0
Bromomethane	U		5.0
Chloroethane	U		5.0
Trichlorofluoromethane	U		5.0
1,1-Dichloroethene	U		5.0
Carbon disulfide	U		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		5.0
Acetone	U		10.0
Methylene chloride	U		5.0
Methyl acetate	U		5.0
trans-1,2-Dichloroethene	U		5.0
cis-1,2-Dichloroethene	U		5.0
Methyl tert-butyl ether	U		5.0
1,1-Dichloroethane	U		5.0
2-Butanone	U		5.0
Chloroform	U		5.0
1,2-Dichloroethane	U		5.0
1,1,1-Trichloroethane	U		5.0
Cyclohexane	U		5.0
Carbon tetrachloride	U		5.0
Benzene	U		5.0



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**Batch: B7D1808****Sample Type: Solid**

### Blank (B7D1808-BLK3)

Prepared: 4/20/2017 Analyzed: 4/21/2017

#### Targets (Continued)

ANALYTE	Result μg/Kg dry	Analyte Qualifiers	Reporting Limit
Trichloroethene	U		5.0
Methylcyclohexane	U		5.0
1,2-Dichloropropane	U		5.0
Bromodichloromethane	U		5.0
cis-1,3-Dichloropropene	U		5.0
trans-1,3-Dichloropropene	U		5.0
1,1,2-Trichloroethane	U		5.0
Dibromochloromethane	U		5.0
Bromoform	U		5.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		5.0
Tetrachloroethene	U		5.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		5.0
Chlorobenzene	U		5.0
Ethylbenzene	U		5.0
meta-/para-Xylene	U		10.0
ortho-Xylene	U		5.0
Styrene	U		5.0
Isopropylbenzene	U		5.0
1,1,2,2-Tetrachloroethane	U		5.0
1,3-Dichlorobenzene	U		5.0
1,4-Dichlorobenzene	U		5.0
1,2-Dichlorobenzene	U		5.0
1,2-Dibromo-3-chloropropane	U		5.0
1,2,4-Trichlorobenzene	U		5.0



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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

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**Batch: B7D1808****Sample Type: Solid**

### Blank (B7D1808-BLK4)

Prepared: 5/31/2017 Analyzed: 5/31/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	49.5		50.0	99.0	78-122
Toluene-d8	48.2		50.0	96.3	80-125
4-Bromofluorobenzene	50.0		50.0	100	69-115

### Blank (B7D1808-BLK4)

Prepared: 5/31/2017 Analyzed: 5/31/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		5.0
Bromomethane	U		5.0
Chloroethane	U		5.0
Trichlorofluoromethane	U		5.0
1,1-Dichloroethene	U		5.0
Carbon disulfide	U		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		5.0
<b>Acetone</b>	<b>10.2</b>		10.0
Methylene chloride	U		5.0
Methyl acetate	U		5.0
trans-1,2-Dichloroethene	U		5.0
cis-1,2-Dichloroethene	U		5.0
Methyl tert-butyl ether	U		5.0
1,1-Dichloroethane	U		5.0
2-Butanone	U		5.0
Chloroform	U		5.0
1,2-Dichloroethane	U		5.0
1,1,1-Trichloroethane	U		5.0
Cyclohexane	U		5.0
Carbon tetrachloride	U		5.0
Benzene	U		5.0



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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

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**Batch: B7D1808****Sample Type: Solid**

### Blank (B7D1808-BLK4)

Prepared: 5/31/2017 Analyzed: 5/31/2017

#### Targets (Continued)

ANALYTE	Result μg/Kg dry	Analyte Qualifiers	Reporting Limit
Trichloroethene	U		5.0
Methylcyclohexane	U		5.0
1,2-Dichloropropane	U		5.0
Bromodichloromethane	U		5.0
cis-1,3-Dichloropropene	U		5.0
trans-1,3-Dichloropropene	U		5.0
1,1,2-Trichloroethane	U		5.0
Dibromochloromethane	U		5.0
Bromoform	U		5.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		5.0
Tetrachloroethene	U		5.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		5.0
Chlorobenzene	U		5.0
Ethylbenzene	U		5.0
meta-/para-Xylene	U		10.0
ortho-Xylene	U		5.0
Styrene	U		5.0
Isopropylbenzene	U		5.0
1,1,2,2-Tetrachloroethane	U		5.0
1,3-Dichlorobenzene	U		5.0
1,4-Dichlorobenzene	U		5.0
1,2-Dichlorobenzene	U		5.0
1,2-Dibromo-3-chloropropane	U		5.0
1,2,4-Trichlorobenzene	U		5.0



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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

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**Batch: B7D1808****Sample Type: Solid**

### Blank (B7D1808-BLK5)

Prepared: 5/1/2017 Analyzed: 5/1/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	49.9		50.0	99.8	78-122
Toluene-d8	49.4		50.0	98.9	80-125
4-Bromofluorobenzene	50.1		50.0	100	69-115

### Blank (B7D1808-BLK5)

Prepared: 5/1/2017 Analyzed: 5/1/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		5.0
Bromomethane	U		5.0
Chloroethane	U		5.0
Trichlorofluoromethane	U		5.0
1,1-Dichloroethene	U		5.0
Carbon disulfide	U		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		5.0
Acetone	U		10.0
Methylene chloride	U		5.0
Methyl acetate	U		5.0
trans-1,2-Dichloroethene	U		5.0
cis-1,2-Dichloroethene	U		5.0
Methyl tert-butyl ether	U		5.0
1,1-Dichloroethane	U		5.0
2-Butanone	U		5.0
Chloroform	U		5.0
1,2-Dichloroethane	U		5.0
1,1,1-Trichloroethane	U		5.0
Cyclohexane	U		5.0
Carbon tetrachloride	U		5.0
Benzene	U		5.0



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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

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**Batch: B7D1808****Sample Type: Solid**

### Blank (B7D1808-BLK5)

Prepared: 5/1/2017 Analyzed: 5/1/2017

#### Targets (Continued)

ANALYTE	Result μg/Kg dry	Analyte Qualifiers	Reporting Limit
Trichloroethene	U		5.0
Methylcyclohexane	U		5.0
1,2-Dichloropropane	U		5.0
Bromodichloromethane	U		5.0
cis-1,3-Dichloropropene	U		5.0
trans-1,3-Dichloropropene	U		5.0
1,1,2-Trichloroethane	U		5.0
Dibromochloromethane	U		5.0
Bromoform	U		5.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		5.0
Tetrachloroethene	U		5.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		5.0
Chlorobenzene	U		5.0
Ethylbenzene	U		5.0
meta-/para-Xylene	U		10.0
ortho-Xylene	U		5.0
Styrene	U		5.0
Isopropylbenzene	U		5.0
1,1,2,2-Tetrachloroethane	U		5.0
1,3-Dichlorobenzene	U		5.0
1,4-Dichlorobenzene	U		5.0
1,2-Dichlorobenzene	U		5.0
1,2-Dibromo-3-chloropropane	U		5.0
1,2,4-Trichlorobenzene	U		5.0



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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### LCS (B7D1808-BS1)

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	47.7		50.0	95.5	78-122
Toluene-d8	48.4		50.0	96.9	80-125
4-Bromofluorobenzene	48.9		50.0	97.9	69-115

### LCS (B7D1808-BS1)

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	53.7		5.0	50.0	108	70-131
Chloromethane	54.6		5.0	50.0	109	68-135
Vinyl chloride	49.2		5.0	50.0	98.5	72-135
Bromomethane	45.9		5.0	50.0	91.8	67-139
Chloroethane	51.0		5.0	50.0	102	67-134
Trichlorofluoromethane	52.2		5.0	50.0	104	73-134
1,1-Dichloroethene	53.1		5.0	50.0	106	72-125
Carbon disulfide	49.8		5.0	50.0	99.6	72-118
1,1,2-Trichloro-1,2,2-trifluoroethane	50.8		5.0	50.0	102	66-134
Acetone	51.1		10.0	50.0	102	52-133
Methylene chloride	55.2		5.0	50.0	110	75-128
Methyl acetate	50.2		5.0	50.0	100	70-129
trans-1,2-Dichloroethene	54.1		5.0	50.0	108	74-121
cis-1,2-Dichloroethene	47.1		5.0	50.0	94.3	76-120
Methyl tert-butyl ether	48.5		5.0	50.0	97.1	71-122
1,1-Dichloroethane	52.0		5.0	50.0	104	76-128
2-Butanone	48.2		5.0	50.0	96.5	60-133
Chloroform	51.9		5.0	50.0	104	76-127
1,2-Dichloroethane	52.0		5.0	50.0	104	75-126
1,1,1-Trichloroethane	55.5		5.0	50.0	111	74-124
Cyclohexane	55.4		5.0	50.0	111	68-129
Carbon tetrachloride	55.0		5.0	50.0	110	73-126
Benzene	53.7		5.0	50.0	107	72-129



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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

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**Batch: B7D1808****Sample Type: Solid**

### LCS (B7D1808-BS1)

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Targets (Continued)

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Trichloroethene	55.7		5.0	50.0	111	75-124
Methylcyclohexane	51.0		5.0	50.0	102	69-123
1,2-Dichloropropane	55.9		5.0	50.0	112	76-128
Bromodichloromethane	53.1		5.0	50.0	106	77-121
cis-1,3-Dichloropropene	57.8		5.0	50.0	116	67-122
trans-1,3-Dichloropropene	51.7		5.0	50.0	103	66-118
1,1,2-Trichloroethane	53.9		5.0	50.0	108	77-124
Dibromochloromethane	53.5		5.0	50.0	107	75-119
Bromoform	52.2		5.0	50.0	105	73-120
4-Methyl-2-pentanone	53.3		5.0	50.0	107	69-129
Toluene	53.8		5.0	50.0	108	76-120
Tetrachloroethene	55.3		5.0	50.0	111	75-126
2-Hexanone	51.1		5.0	50.0	102	65-129
1,2-Dibromoethane	52.6		5.0	50.0	105	75-125
Chlorobenzene	54.5		5.0	50.0	109	75-124
Ethylbenzene	53.9		5.0	50.0	108	70-122
meta-/para-Xylene	105		10.0	99.9	105	72-122
ortho-Xylene	52.1		5.0	50.0	104	72-121
Styrene	51.8		5.0	50.0	104	72-119
Isopropylbenzene	48.5		5.0	50.0	97.1	69-120
1,1,2,2-Tetrachloroethane	53.6		5.0	50.0	107	73-129
1,3-Dichlorobenzene	52.1		5.0	50.0	104	74-115
1,4-Dichlorobenzene	52.6		5.0	50.0	105	72-118
1,2-Dichlorobenzene	51.6		5.0	50.0	103	74-116
1,2-Dibromo-3-chloropropane	53.2		5.0	50.0	106	72-125
1,2,4-Trichlorobenzene	52.1		5.0	50.0	104	70-121



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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### LCS (B7D1808-BS2)

Prepared: 4/19/2017 Analyzed: 4/20/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	51.3		49.9	103	78-122
Toluene-d8	48.2		49.9	96.5	80-125
4-Bromofluorobenzene	49.2		49.9	98.6	69-115

### LCS (B7D1808-BS2)

Prepared: 4/19/2017 Analyzed: 4/20/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	40.7		5.0	49.9	81.6	70-131
Chloromethane	46.5		5.0	49.9	93.2	68-135
Vinyl chloride	47.6		5.0	49.9	95.4	72-135
Bromomethane	51.0		5.0	49.9	102	67-139
Chloroethane	49.3		5.0	49.9	98.7	67-134
Trichlorofluoromethane	61.3		5.0	49.9	123	73-134
1,1-Dichloroethene	52.9		5.0	49.9	106	72-125
Carbon disulfide	49.8		5.0	49.9	99.7	72-118
1,1,2-Trichloro-1,2,2-trifluoroethane	56.6		5.0	49.9	113	66-134
Acetone	48.8		10.0	49.9	97.7	52-133
Methylene chloride	56.0		5.0	49.9	112	75-128
Methyl acetate	51.3		5.0	49.9	103	70-129
trans-1,2-Dichloroethene	51.7		5.0	49.9	104	74-121
cis-1,2-Dichloroethene	47.2		5.0	49.9	94.6	76-120
Methyl tert-butyl ether	48.5		5.0	49.9	97.2	71-122
1,1-Dichloroethane	55.6		5.0	49.9	111	76-128
2-Butanone	50.8		5.0	49.9	102	60-133
Chloroform	53.9		5.0	49.9	108	76-127
1,2-Dichloroethane	54.3		5.0	49.9	109	75-126
1,1,1-Trichloroethane	54.4		5.0	49.9	109	74-124
Cyclohexane	58.9		5.0	49.9	118	68-129
Carbon tetrachloride	56.2		5.0	49.9	113	73-126
Benzene	50.2		5.0	49.9	100	72-129



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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### LCS (B7D1808-BS2)

Prepared: 4/19/2017 Analyzed: 4/20/2017

#### Targets (Continued)

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Trichloroethene	52.2		5.0	49.9	105	75-124
Methylcyclohexane	52.9		5.0	49.9	106	69-123
1,2-Dichloropropane	52.9		5.0	49.9	106	76-128
Bromodichloromethane	51.6		5.0	49.9	103	77-121
cis-1,3-Dichloropropene	53.4		5.0	49.9	107	67-122
trans-1,3-Dichloropropene	49.0		5.0	49.9	98.2	66-118
1,1,2-Trichloroethane	53.5		5.0	49.9	107	77-124
Dibromochloromethane	55.1		5.0	49.9	110	75-119
Bromoform	54.8		5.0	49.9	110	73-120
4-Methyl-2-pentanone	51.0		5.0	49.9	102	69-129
Toluene	51.3		5.0	49.9	103	76-120
Tetrachloroethene	52.8		5.0	49.9	106	75-126
2-Hexanone	53.3		5.0	49.9	107	65-129
1,2-Dibromoethane	52.5		5.0	49.9	105	75-125
Chlorobenzene	53.2		5.0	49.9	106	75-124
Ethylbenzene	51.7		5.0	49.9	104	70-122
meta-/para-Xylene	100		10.0	99.8	100	72-122
ortho-Xylene	49.8		5.0	49.9	99.7	72-121
Styrene	49.2		5.0	49.9	98.6	72-119
Isopropylbenzene	47.7		5.0	49.9	95.6	69-120
1,1,2,2-Tetrachloroethane	55.1		5.0	49.9	110	73-129
1,3-Dichlorobenzene	52.3		5.0	49.9	105	74-115
1,4-Dichlorobenzene	53.6		5.0	49.9	107	72-118
1,2-Dichlorobenzene	53.1		5.0	49.9	106	74-116
1,2-Dibromo-3-chloropropane	58.4		5.0	49.9	117	72-125
1,2,4-Trichlorobenzene	55.3		5.0	49.9	111	70-121



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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### LCS (B7D1808-BS3)

Prepared: 4/20/2017 Analyzed: 4/21/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	49.4		50.0	98.9	78-122
Toluene-d8	49.1		50.0	98.2	80-125
4-Bromofluorobenzene	49.6		50.0	99.3	69-115

### LCS (B7D1808-BS3)

Prepared: 4/20/2017 Analyzed: 4/21/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	43.6		5.0	50.0	87.2	70-131
Chloromethane	48.5		5.0	50.0	97.0	68-135
Vinyl chloride	49.1		5.0	50.0	98.3	72-135
Bromomethane	49.5		5.0	50.0	99.1	67-139
Chloroethane	52.3		5.0	50.0	105	67-134
Trichlorofluoromethane	63.4		5.0	50.0	127	73-134
1,1-Dichloroethene	53.6		5.0	50.0	107	72-125
Carbon disulfide	49.1		5.0	50.0	98.3	72-118
1,1,2-Trichloro-1,2,2-trifluoroethane	59.1		5.0	50.0	118	66-134
Acetone	39.4		10.0	50.0	78.9	52-133
Methylene chloride	53.9		5.0	50.0	108	75-128
Methyl acetate	47.7		5.0	50.0	95.4	70-129
trans-1,2-Dichloroethene	50.9		5.0	50.0	102	74-121
cis-1,2-Dichloroethene	46.9		5.0	50.0	93.8	76-120
Methyl tert-butyl ether	47.4		5.0	50.0	94.9	71-122
1,1-Dichloroethane	54.3		5.0	50.0	109	76-128
2-Butanone	44.6		5.0	50.0	89.3	60-133
Chloroform	53.1		5.0	50.0	106	76-127
1,2-Dichloroethane	53.3		5.0	50.0	107	75-126
1,1,1-Trichloroethane	55.4		5.0	50.0	111	74-124
Cyclohexane	59.0		5.0	50.0	118	68-129
Carbon tetrachloride	55.4		5.0	50.0	111	73-126
Benzene	50.4		5.0	50.0	101	72-129



# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

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**Batch: B7D1808****Sample Type: Solid**

### LCS (B7D1808-BS3)

Prepared: 4/20/2017 Analyzed: 4/21/2017

#### Targets (Continued)

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Trichloroethene	52.5		5.0	50.0	105	75-124
Methylcyclohexane	55.1		5.0	50.0	110	69-123
1,2-Dichloropropane	56.0		5.0	50.0	112	76-128
Bromodichloromethane	52.9		5.0	50.0	106	77-121
cis-1,3-Dichloropropene	54.7		5.0	50.0	109	67-122
trans-1,3-Dichloropropene	49.9		5.0	50.0	99.9	66-118
1,1,2-Trichloroethane	52.9		5.0	50.0	106	77-124
Dibromochloromethane	54.5		5.0	50.0	109	75-119
Bromoform	52.6		5.0	50.0	105	73-120
4-Methyl-2-pentanone	49.7		5.0	50.0	99.4	69-129
Toluene	51.3		5.0	50.0	103	76-120
Tetrachloroethene	51.8		5.0	50.0	104	75-126
2-Hexanone	47.8		5.0	50.0	95.6	65-129
1,2-Dibromoethane	52.5		5.0	50.0	105	75-125
Chlorobenzene	52.3		5.0	50.0	105	75-124
Ethylbenzene	50.2		5.0	50.0	100	70-122
meta-/para-Xylene	97.5		10.0	100	97.5	72-122
ortho-Xylene	50.5		5.0	50.0	101	72-121
Styrene	49.8		5.0	50.0	99.6	72-119
Isopropylbenzene	47.1		5.0	50.0	94.2	69-120
1,1,2,2-Tetrachloroethane	53.9		5.0	50.0	108	73-129
1,3-Dichlorobenzene	51.5		5.0	50.0	103	74-115
1,4-Dichlorobenzene	52.3		5.0	50.0	105	72-118
1,2-Dichlorobenzene	52.9		5.0	50.0	106	74-116
1,2-Dibromo-3-chloropropane	50.9		5.0	50.0	102	72-125
1,2,4-Trichlorobenzene	51.5		5.0	50.0	103	70-121



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### LCS (B7D1808-BS4)

Prepared: 5/31/2017 Analyzed: 5/31/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	51.9		50.0	104	78-122
Toluene-d8	50.2		50.0	100	80-125
4-Bromofluorobenzene	51.8		50.0	104	69-115

### LCS (B7D1808-BS4)

Prepared: 5/31/2017 Analyzed: 5/31/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	5.3		5.0	50.0	10.7 #	70-131
Chloromethane	20.0		5.0	50.0	40.0 #	68-135
Vinyl chloride	29.8		5.0	50.0	59.7 #	72-135
Bromomethane	39.8		5.0	50.0	79.8	67-139
Chloroethane	45.1		5.0	50.0	90.2	67-134
Trichlorofluoromethane	57.3		5.0	50.0	115	73-134
1,1-Dichloroethene	46.4		5.0	50.0	92.9	72-125
Carbon disulfide	43.2		5.0	50.0	86.4	72-118
1,1,2-Trichloro-1,2,2-trifluoroethane	68.2		5.0	50.0	137 #	66-134
Acetone	52.4		10.0	50.0	105	52-133
Methylene chloride	56.1		5.0	50.0	112	75-128
Methyl acetate	58.1		5.0	50.0	116	70-129
trans-1,2-Dichloroethene	46.5		5.0	50.0	93.1	74-121
cis-1,2-Dichloroethene	46.5		5.0	50.0	93.1	76-120
Methyl tert-butyl ether	59.0		5.0	50.0	118	71-122
1,1-Dichloroethane	55.9		5.0	50.0	112	76-128
2-Butanone	51.9		5.0	50.0	104	60-133
Chloroform	58.2		5.0	50.0	116	76-127
1,2-Dichloroethane	60.3		5.0	50.0	121	75-126
1,1,1-Trichloroethane	58.7		5.0	50.0	117	74-124
Cyclohexane	68.4		5.0	50.0	137 #	68-129
Carbon tetrachloride	60.5		5.0	50.0	121	73-126
Benzene	46.5		5.0	50.0	93.1	72-129



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### LCS (B7D1808-BS4)

Prepared: 5/31/2017 Analyzed: 5/31/2017

#### Targets (Continued)

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Trichloroethene	49.7		5.0	50.0	99.5	75-124
Methylcyclohexane	64.3		5.0	50.0	129 #	69-123
1,2-Dichloropropane	60.9		5.0	50.0	122	76-128
Bromodichloromethane	57.2		5.0	50.0	114	77-121
cis-1,3-Dichloropropene	49.3		5.0	50.0	98.7	67-122
trans-1,3-Dichloropropene	45.2		5.0	50.0	90.5	66-118
1,1,2-Trichloroethane	61.6		5.0	50.0	123	77-124
Dibromochloromethane	60.5		5.0	50.0	121 #	75-119
Bromoform	61.7		5.0	50.0	124 #	73-120
4-Methyl-2-pentanone	56.7		5.0	50.0	113	69-129
Toluene	45.9		5.0	50.0	91.9	76-120
Tetrachloroethene	45.7		5.0	50.0	91.4	75-126
2-Hexanone	53.8		5.0	50.0	108	65-129
1,2-Dibromoethane	56.7		5.0	50.0	113	75-125
Chlorobenzene	46.4		5.0	50.0	92.9	75-124
Ethylbenzene	45.4		5.0	50.0	90.8	70-122
meta-/para-Xylene	90.2		10.0	99.9	90.2	72-122
ortho-Xylene	49.5		5.0	50.0	99.0	72-121
Styrene	50.5		5.0	50.0	101	72-119
Isopropylbenzene	58.1		5.0	50.0	116	69-120
1,1,2,2-Tetrachloroethane	64.0		5.0	50.0	128	73-129
1,3-Dichlorobenzene	54.1		5.0	50.0	108	74-115
1,4-Dichlorobenzene	53.4		5.0	50.0	107	72-118
1,2-Dichlorobenzene	57.7		5.0	50.0	115	74-116
1,2-Dibromo-3-chloropropane	60.7		5.0	50.0	121	72-125
1,2,4-Trichlorobenzene	48.2		5.0	50.0	96.5	70-121



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### LCS (B7D1808-BS5)

Prepared: 5/1/2017 Analyzed: 5/1/2017

#### Surrogates

ANALYTE	Result µg/Kg wet	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	51.0		50.0	102	78-122
Toluene-d8	50.0		50.0	99.9	80-125
4-Bromofluorobenzene	51.6		50.0	103	69-115

### LCS (B7D1808-BS5)

Prepared: 5/1/2017 Analyzed: 5/1/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	112		5.0	50.0	224 #	70-131
Chloromethane	70.0		5.0	50.0	140 #	68-135
Vinyl chloride	56.5		5.0	50.0	113	72-135
Bromomethane	54.8		5.0	50.0	110	67-139
Chloroethane	51.9		5.0	50.0	104	67-134
Trichlorofluoromethane	52.2		5.0	50.0	104	73-134
1,1-Dichloroethene	44.8		5.0	50.0	89.6	72-125
Carbon disulfide	44.6		5.0	50.0	89.3	72-118
1,1,2-Trichloro-1,2,2-trifluoroethane	41.7		5.0	50.0	83.4	66-134
Acetone	34.4		10.0	50.0	68.7	52-133
Methylene chloride	51.6		5.0	50.0	103	75-128
Methyl acetate	57.0		5.0	50.0	114	70-129
trans-1,2-Dichloroethene	47.6		5.0	50.0	95.3	74-121
cis-1,2-Dichloroethene	45.8		5.0	50.0	91.6	76-120
Methyl tert-butyl ether	51.9		5.0	50.0	104	71-122
1,1-Dichloroethane	51.8		5.0	50.0	104	76-128
2-Butanone	53.3		5.0	50.0	107	60-133
Chloroform	50.9		5.0	50.0	102	76-127
1,2-Dichloroethane	56.3		5.0	50.0	113	75-126
1,1,1-Trichloroethane	49.1		5.0	50.0	98.3	74-124
Cyclohexane	48.9		5.0	50.0	97.7	68-129
Carbon tetrachloride	46.7		5.0	50.0	93.3	73-126
Benzene	48.3		5.0	50.0	96.6	72-129



# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

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**Batch: B7D1808****Sample Type: Solid**

### LCS (B7D1808-BS5)

Prepared: 5/1/2017 Analyzed: 5/1/2017

#### Targets (Continued)

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Trichloroethene	49.4		5.0	50.0	98.8	75-124
Methylcyclohexane	44.4		5.0	50.0	88.8	69-123
1,2-Dichloropropane	55.0		5.0	50.0	110	76-128
Bromodichloromethane	51.6		5.0	50.0	103	77-121
cis-1,3-Dichloropropene	54.7		5.0	50.0	109	67-122
trans-1,3-Dichloropropene	50.9		5.0	50.0	102	66-118
1,1,2-Trichloroethane	56.5		5.0	50.0	113	77-124
Dibromochloromethane	56.9		5.0	50.0	114	75-119
Bromoform	56.3		5.0	50.0	113	73-120
4-Methyl-2-pentanone	52.5		5.0	50.0	105	69-129
Toluene	46.2		5.0	50.0	92.4	76-120
Tetrachloroethene	45.7		5.0	50.0	91.4	75-126
2-Hexanone	50.3		5.0	50.0	101	65-129
1,2-Dibromoethane	53.7		5.0	50.0	107	75-125
Chlorobenzene	49.0		5.0	50.0	98.0	75-124
Ethylbenzene	46.1		5.0	50.0	92.3	70-122
meta-/para-Xylene	90.8		10.0	100	90.8	72-122
ortho-Xylene	46.9		5.0	50.0	93.7	72-121
Styrene	47.0		5.0	50.0	94.0	72-119
Isopropylbenzene	43.1		5.0	50.0	86.3	69-120
1,1,2,2-Tetrachloroethane	56.3		5.0	50.0	113	73-129
1,3-Dichlorobenzene	49.9		5.0	50.0	99.9	74-115
1,4-Dichlorobenzene	50.8		5.0	50.0	102	72-118
1,2-Dichlorobenzene	52.0		5.0	50.0	104	74-116
1,2-Dibromo-3-chloropropane	59.1		5.0	50.0	118	72-125
1,2,4-Trichlorobenzene	55.5		5.0	50.0	111	70-121



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### Matrix Spike (B7D1808-MS1)

Source: 1704016-18

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Surrogates

ANALYTE	Result µg/Kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	43.3		43.4	99.8	78-122
Toluene-d8	44.4		43.4	102	80-125
4-Bromofluorobenzene	43.2		43.4	99.6	69-115

### Matrix Spike (B7D1808-MS1)

Source: 1704016-18

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
1,1-Dichloroethene	42.1		4.3	43.4		97.0	70-130
Benzene	43.2		4.3	43.4		99.7	70-130
Trichloroethene	45.1		4.3	43.4		104	70-130
Toluene	45.0		4.3	43.4		104	70-130
Chlorobenzene	45.0		4.3	43.4		104	70-130



Environmental Protection Agency

# Region 6 Laboratory

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## Volatiles by CLP OLM04.2/5035 - GC/MS - Quality Control

Batch: B7D1808

Sample Type: Solid

### Matrix Spike Dup (B7D1808-MSD1)

Source: 1704016-18

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Surrogates

ANALYTE	Result µg/Kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
1,2-Dichloroethane-d4	39.8		44.9	88.8	78-122
Toluene-d8	52.1		44.9	116	80-125
4-Bromofluorobenzene	29.4		44.9	65.6 #	69-115

### Matrix Spike Dup (B7D1808-MSD1)

Source: 1704016-18

Prepared: 4/18/2017 Analyzed: 4/18/2017

#### Targets

ANALYTE	Result µg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1-Dichloroethene	29.6		4.5	44.9		66.1 #	70-130	37.9 #	30
Benzene	39.4		4.5	44.9		87.8	70-130	12.7	30
Trichloroethene	33.7		4.5	44.9		75.2	70-130	32.2 #	30
Toluene	45.3		4.5	44.9		101	70-130	2.66	30
Chlorobenzene	39.9		4.5	44.9		89.0	70-130	15.2	30



Environmental Protection Agency

# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7D1905

Sample Type: Solid

### Blank (B7D1905-BLK1)

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Aluminum	U		10.0
Barium	U		1.0
Beryllium	U		0.5
Cadmium	U		0.5
Calcium	U		15.0
Chromium	U		1.0
Cobalt	U		2.0
Copper	U		2.0
Iron	U		2.5
Magnesium	U		15.0
Manganese	U		0.5
Nickel	U		2.0
Potassium	U		100
Silver	U		1.0
Sodium	U		50.0
Vanadium	U		2.0
Zinc	4.3		2.0

### LCS (B7D1905-BS1)

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Aluminum	93.3		10.0	100	93.3	75-125
Barium	182		1.0	200	91.1	75-125
Beryllium	4.7		0.5	5.01	94.1	75-125
Cadmium	4.7		0.5	5.00	93.6	75-125
Calcium	9,270		15.0	10,000	92.7	75-125
Chromium	37.1		1.0	40.0	92.7	75-125
Cobalt	17.6		2.0	20.0	88.1	75-125
Copper	36.9		2.0	40.0	92.1	75-125
Iron	91.1		2.5	100	91.1	75-125



# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP - Quality Control

**Batch: B7D1905****Sample Type: Solid**

### LCS (B7D1905-BS1)

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets (Continued)

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Magnesium	9,600		15.0	10,000	96.0	75-125
Manganese	36.5		0.5	40.0	91.3	75-125
Nickel	35.0		2.0	40.0	87.4	75-125
Potassium	9,530		100	10,000	95.3	75-125
Silver	4.5		1.0	5.00	90.2	75-125
Sodium	9,120		50.0	10,000	91.2	75-125
Vanadium	38.3		2.0	40.0	95.7	75-125
Zinc	90.9		2.0	100	90.9	75-125

### Matrix Spike (B7D1905-MS1)

**Source: 1704016-02**

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Aluminum	6,570		10.4	104	2,620	NR #	75-125
Barium	236		1.0	208	39.1	94.6	75-125
Beryllium	5.1		0.5	5.22	0.2	95.1	75-125
Cadmium	6.8		0.5	5.21	2.1	90.2	75-125
Calcium	12,600		15.6	10,400	1,440	107	75-125
Chromium	54.5		1.0	41.7	11.2	104	75-125
Cobalt	22.2		2.1	20.8	4.0	87.4	75-125
Copper	63.9		2.1	41.7	62.6	3.16 #	75-125
Iron	13,600		2.6	104	14,000	NR #	75-125
Magnesium	11,300		15.6	10,400	5,770	53.6 #	75-125
Manganese	547		0.5	41.6	187	864 #	75-125
Nickel	50.7		2.1	41.7	15.8	83.6	75-125
Potassium	10,800		104	10,400	386	100	75-125
Silver	4.6		1.0	5.21	0.3	83.2	75-125
Sodium	9,890		52.1	10,400	17.7	94.8	75-125
Vanadium	59.1		2.1	41.6	15.0	106	75-125
Zinc	381		2.1	104	313	66.0 #	75-125



# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP - Quality Control

**Batch: B7D1905****Sample Type: Solid**

### Matrix Spike (B7D1905-MS2)

**Source: 1704016-06**

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	2,320		10.7	107	910	NR	# 75-125
Barium	225		1.1	215	27.1	92.4	75-125
Beryllium	5.2		0.5	5.37	0.1	94.5	75-125
Cadmium	5.1		0.5	5.36	0.4	87.2	75-125
Calcium	11,500		16.1	10,700	718	101	75-125
Chromium	42.6		1.1	42.9	2.3	93.7	75-125
Cobalt	20.9		2.1	21.5	2.0	88.0	75-125
Copper	43.9		2.1	42.9	2.4	96.5	75-125
Iron	2,660		2.7	107	2,500	143	# 75-125
Magnesium	10,800		16.1	10,700	202	98.8	75-125
Manganese	195		0.5	42.9	160	82.9	75-125
Nickel	40.4		2.1	43.0	2.3	88.6	75-125
Potassium	10,700		107	10,700	211	97.7	75-125
Silver	4.9		1.1	5.36	0.1	87.9	75-125
Sodium	9,980		53.6	10,700	6.5	92.9	75-125
Vanadium	46.3		2.1	42.9	4.2	98.1	75-125
Zinc	110		2.1	107	15.0	88.3	75-125

### Matrix Spike (B7D1905-MS3)

**Source: 1704016-18**

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	4,310		10.4	104	1,970	NR	# 75-125
Barium	216		1.0	207	32.5	88.6	75-125
Beryllium	4.8		0.5	5.20	0.1	90.4	75-125
Cadmium	5.1		0.5	5.19	0.9	81.4	75-125
Calcium	13,500		15.6	10,400	3,870	92.9	75-125
Chromium	42.2		1.0	41.5	3.8	92.6	75-125
Cobalt	19.4		2.1	20.7	2.0	83.9	75-125
Copper	42.8		2.1	41.5	4.9	91.4	75-125
Iron	8,360		2.6	104	10,500	NR	# 75-125
Magnesium	10,500		15.6	10,400	362	97.9	75-125



# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

## Metals by CLP ILMO5.3 - ICP - Quality Control

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**Batch: B7D1905****Sample Type: Solid**

### Matrix Spike (B7D1905-MS3)

**Source: 1704016-18**

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Manganese	139		0.5	41.5	95.3	106	75-125
Nickel	38.3		2.1	41.5	3.0	85.0	75-125
Potassium	10,100		104	10,400	216	95.0	75-125
Silver	4.4		1.0	5.19	0.2	80.2	75-125
Sodium	9,320		51.9	10,400	16.0	89.7	75-125
Vanadium	51.7		2.1	41.5	12.6	94.2	75-125
Zinc	98.6		2.1	104	8.9	86.5	75-125

### Matrix Spike Dup (B7D1905-MSD1)

**Source: 1704016-02**

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit		
Aluminum	5,270		10.5	105	2,620	NR	#	75-125	22.0	#	20
Barium	231		1.0	209	39.1	91.5		75-125	2.39		20
Beryllium	5.1		0.5	5.25	0.2	92.7		75-125	1.86		20
Cadmium	6.4		0.5	5.24	2.1	81.5		75-125	6.51		20
Calcium	11,200		15.7	10,500	1,440	92.8		75-125	11.9		20
Chromium	44.9		1.0	41.9	11.2	80.3		75-125	19.4		20
Cobalt	21.6		2.1	20.9	4.0	84.0		75-125	2.74		20
Copper	61.5		2.1	41.9	62.6	NR	#	75-125	3.84		20
Iron	12,800		2.6	105	14,000	NR	#	75-125	6.38		20
Magnesium	10,800		15.7	10,500	5,770	48.3	#	75-125	4.71		20
Manganese	194		0.5	41.9	187	16.5	#	75-125	95.2	#	20
Nickel	46.4		2.1	41.9	15.8	73.0	#	75-125	8.79		20
Potassium	10,700		105	10,500	386	98.1		75-125	1.37		20
Silver	4.6		1.0	5.24	0.3	82.4		75-125	0.35		20
Sodium	9,790		52.4	10,500	17.7	93.3		75-125	1.02		20
Vanadium	53.5		2.1	41.9	15.0	92.0		75-125	9.82		20
Zinc	271		2.1	105	313	NR	#	75-125	33.9	#	20



# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7D1905

Sample Type: Solid

### Matrix Spike Dup (B7D1905-MSD2)

Source: 1704016-06

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Aluminum	2,340		10.7	107	910	NR #	75-125	0.65	20
Barium	220		1.1	214	27.1	90.3	75-125	2.19	20
Beryllium	5.1		0.5	5.36	0.1	93.1	75-125	1.64	20
Cadmium	5.1		0.5	5.35	0.4	86.6	75-125	0.77	20
Calcium	10,700		16.1	10,700	718	92.8	75-125	7.97	20
Chromium	42.1		1.1	42.9	2.3	92.9	75-125	1.02	20
Cobalt	20.5		2.1	21.4	2.0	86.1	75-125	2.08	20
Copper	42.5		2.1	42.9	2.4	93.4	75-125	3.26	20
Iron	2,590		2.7	107	2,500	82.0	75-125	2.50	20
Magnesium	10,600		16.1	10,700	202	97.2	75-125	1.79	20
Manganese	187		0.5	42.8	160	63.9 #	75-125	4.27	20
Nickel	39.8		2.1	42.9	2.3	87.2	75-125	1.67	20
Potassium	10,600		107	10,700	211	96.7	75-125	1.14	20
Silver	4.7		1.1	5.35	0.1	85.9	75-125	2.41	20
Sodium	9,870		53.5	10,700	6.5	92.1	75-125	1.13	20
Vanadium	45.5		2.1	42.8	4.2	96.6	75-125	1.64	20
Zinc	108		2.1	107	15.0	86.9	75-125	1.54	20

### Matrix Spike Dup (B7D1905-MSD3)

Source: 1704016-18

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Aluminum	5,520		10.5	105	1,970	NR #	75-125	24.6 #	20
Barium	231		1.1	210	32.5	94.6	75-125	6.74	20
Beryllium	5.1		0.5	5.27	0.1	94.1	75-125	5.20	20
Cadmium	5.3		0.5	5.25	0.9	84.1	75-125	3.72	20
Calcium	13,000		15.8	10,500	3,870	87.0	75-125	3.69	20
Chromium	44.4		1.1	42.1	3.8	96.6	75-125	5.08	20
Cobalt	20.0		2.1	21.0	2.0	85.5	75-125	2.90	20
Copper	44.8		2.1	42.1	4.9	94.9	75-125	4.53	20
Iron	8,990		2.6	105	10,500	NR #	75-125	7.21	20
Magnesium	10,600		15.8	10,500	362	97.5	75-125	0.90	20



# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP - Quality Control

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**Batch: B7D1905****Sample Type: Solid**

### Matrix Spike Dup (B7D1905-MSD3)

**Source: 1704016-18**

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit
Manganese	125		0.5	42.0	95.3	71.6 #	75-125	10.5	20
Nickel	39.8		2.1	42.1	3.0	87.3	75-125	3.78	20
Potassium	10,500		105	10,500	216	98.1	75-125	4.47	20
Silver	4.5		1.1	5.25	0.2	82.0	75-125	3.49	20
Sodium	9,740		52.5	10,500	16.0	92.5	75-125	4.45	20
Vanadium	53.8		2.1	42.0	12.6	97.8	75-125	3.89	20
Zinc	100		2.1	105	8.9	86.8	75-125	1.50	20

### Reference (B7D1905-SRM1)

Prepared: 4/19/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit
Aluminum	87.1		9.8	115		75.7	47.6-152.2		
Barium	1.3		1.0	1.60		83.2	62.5-137.5		
Beryllium	4.2		0.5	4.90		86.7	61.2-138.7		
Cadmium	9.1		0.5	10.9		83.5	70.6-128.4		
Calcium	41,400		14.8	44,200		93.7	68.6-131.7		
Chromium	23.2		1.0	27.1		85.5	68.3-131.7		
Cobalt	32.2		2.0	37.4		86.1	64.7-135.3		
Copper	1,480		2.0	1,770		83.6	74.6-126		
Iron	5,420		2.5	6,470		83.8	66.2-133.8		
Magnesium	26,800		14.8	29,200		91.9	70.2-129.8		
Manganese	53.0		0.5	61.0		86.9	68.2-132		
Nickel	13.5		2.0	16.3		82.6	55.2-145.4		
Potassium	18.4		98.4	39.7		46.4	0-215		
Silver	6.4		1.0	5.90		109	45.8-154.2		
Sodium	16.0		49.2	72.5		22.1	0-298		
Vanadium	16.0		2.0	17.6		90.8	65.9-134.6		
Zinc	37.7		2.0	47.5		79.3	43.2-156.6		



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7D2005

Sample Type: Solid

### Blank (B7D2005-BLK1)

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Aluminum	U		10.0
Barium	U		1.0
Beryllium	U		0.5
Cadmium	U		0.5
Calcium	U		15.0
Chromium	U		1.0
Cobalt	U		2.0
<b>Copper</b>	<b>2.3</b>		2.0
Iron	U		2.5
Magnesium	U		15.0
Manganese	U		0.5
Nickel	U		2.0
Potassium	U		100
Silver	U		1.0
Sodium	U		50.0
Vanadium	U		2.0
Zinc	<b>4.4</b>		2.0

### LCS (B7D2005-BS1)

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Aluminum	91.0		10.0	100	91.0	75-125
Barium	181		1.0	200	90.7	75-125
Beryllium	4.7		0.5	5.01	93.2	75-125
Cadmium	4.4		0.5	5.00	88.7	75-125
Calcium	9,330		15.0	10,000	93.3	75-125
Chromium	36.8		1.0	40.0	91.8	75-125
Cobalt	17.6		2.0	20.0	87.8	75-125
Copper	37.5		2.0	40.0	93.7	75-125
Iron	91.3		2.5	100	91.3	75-125
Magnesium	9,590		15.0	10,000	95.9	75-125



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7D2005

Sample Type: Solid

### LCS (B7D2005-BS1)

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets (Continued)

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Manganese	36.0		0.5	40.0	90.0	75-125
Nickel	35.2		2.0	40.0	87.8	75-125
Potassium	9,620		100	10,000	96.2	75-125
Silver	4.6		1.0	5.00	91.6	75-125
Sodium	9,140		50.0	10,000	91.4	75-125
Vanadium	37.6		2.0	40.0	94.1	75-125
Zinc	89.0		2.0	100	89.0	75-125

### Matrix Spike (B7D2005-MS1)

Source: 1704017-04

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Aluminum	6,030		10.2	102	4,160	NR #	75-125
Barium	240		1.0	203	63.4	86.6	75-125
Beryllium	5.0		0.5	5.10	0.4	90.3	75-125
Cadmium	5.0		0.5	5.09	0.6	86.3	75-125
Calcium	10,400		15.3	10,200	1,060	91.9	75-125
Chromium	44.6		1.0	40.7	7.6	90.8	75-125
Cobalt	20.8		2.0	20.3	3.5	84.6	75-125
Copper	43.9		2.0	40.7	6.3	92.4	75-125
Iron	8,160		2.5	102	8,220	NR #	75-125
Magnesium	10,600		15.3	10,200	763	96.7	75-125
Manganese	137		0.5	40.7	103	84.5	75-125
Nickel	45.7		2.0	40.7	5.8	97.9	75-125
Potassium	10,400		102	10,200	655	96.0	75-125
Silver	4.6		1.0	5.09	0.3	84.6	75-125
Sodium	9,290		50.9	10,200	17.0	91.2	75-125
Vanadium	53.6		2.0	40.7	17.1	89.6	75-125
Zinc	100		2.0	102	13.3	85.6	75-125



Environmental Protection Agency

# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7D2005

Sample Type: Solid

### Matrix Spike (B7D2005-MS2)

Source: 1704017-12

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Aluminum	6,770		10.8	108	5,250	NR #	75-125
Barium	224		1.1	216	33.8	88.2	75-125
Beryllium	5.2		0.5	5.40	0.3	90.5	75-125
Cadmium	5.2		0.5	5.39	0.6	84.6	75-125
Calcium	10,300		16.2	10,800	632	89.9	75-125
Chromium	45.9		1.1	43.2	8.4	86.9	75-125
Cobalt	20.9		2.2	21.6	2.6	84.6	75-125
Copper	46.5		2.2	43.2	6.4	92.9	75-125
Iron	7,510		2.7	108	8,320	NR #	75-125
Magnesium	10,700		16.2	10,800	477	94.8	75-125
Manganese	99.0		0.5	43.1	59.1	92.3	75-125
Nickel	41.1		2.2	43.2	4.1	85.6	75-125
Potassium	10,700		108	10,800	504	94.4	75-125
Silver	4.9		1.1	5.39	0.3	84.8	75-125
Sodium	9,740		53.9	10,800	21.5	90.1	75-125
Vanadium	54.8		2.2	43.1	14.6	93.2	75-125
Zinc	103		2.2	108	26.8	71.1 #	75-125

### Matrix Spike Dup (B7D2005-MSD1)

Source: 1704017-04

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Aluminum	5,880		10.2	102	4,160	NR #	75-125	2.51	20
Barium	243		1.0	204	63.4	88.4	75-125	1.59	20
Beryllium	5.0		0.5	5.11	0.4	91.6	75-125	1.48	20
Cadmium	5.0		0.5	5.10	0.6	85.9	75-125	0.26	20
Calcium	10,500		15.3	10,200	1,060	92.6	75-125	0.85	20
Chromium	44.5		1.0	40.8	7.6	90.6	75-125	0.08	20
Cobalt	21.2		2.0	20.4	3.5	86.4	75-125	1.93	20
Copper	44.6		2.0	40.8	6.3	93.8	75-125	1.46	20
Iron	8,280		2.5	102	8,220	61.4 #	75-125	1.41	20
Magnesium	10,600		15.3	10,200	763	97.0	75-125	0.46	20



# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP - Quality Control

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**Batch: B7D2005****Sample Type: Solid**

### Matrix Spike Dup (B7D2005-MSD1)

**Source: 1704017-04**

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Manganese	164		0.5	40.8	103	150 #	75-125	17.8	20
Nickel	41.6		2.0	40.8	5.8	87.6	75-125	9.42	20
Potassium	10,500		102	10,200	655	96.3	75-125	0.46	20
Silver	4.6		1.0	5.10	0.3	84.1	75-125	0.36	20
Sodium	9,360		51.0	10,200	17.0	91.7	75-125	0.74	20
Vanadium	54.5		2.0	40.8	17.1	91.7	75-125	1.64	20
Zinc	101		2.0	102	13.3	85.9	75-125	0.43	20

### Matrix Spike Dup (B7D2005-MSD2)

**Source: 1704017-12**

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Aluminum	7,140		10.4	104	5,250	NR #	75-125	5.32	20
Barium	217		1.0	208	33.8	88.3	75-125	3.11	20
Beryllium	5.1		0.5	5.20	0.3	90.8	75-125	3.15	20
Cadmium	6.1		0.5	5.19	0.6	106	75-125	16.3	20
Calcium	10,100		15.6	10,400	632	91.0	75-125	2.43	20
Chromium	46.9		1.0	41.6	8.4	92.7	75-125	2.22	20
Cobalt	20.6		2.1	20.8	2.6	86.7	75-125	1.16	20
Copper	46.1		2.1	41.6	6.4	95.5	75-125	0.94	20
Iron	8,260		2.6	104	8,320	NR #	75-125	9.52	20
Magnesium	10,400		15.6	10,400	477	95.4	75-125	3.01	20
Manganese	113		0.5	41.5	59.1	131 #	75-125	13.7	20
Nickel	40.4		2.1	41.6	4.1	87.1	75-125	1.80	20
Potassium	10,400		104	10,400	504	95.4	75-125	2.56	20
Silver	4.7		1.0	5.19	0.3	83.9	75-125	4.50	20
Sodium	9,410		51.9	10,400	21.5	90.4	75-125	3.39	20
Vanadium	54.7		2.1	41.5	14.6	96.5	75-125	0.25	20
Zinc	168		2.1	104	26.8	136 #	75-125	47.5 #	20



# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP - Quality Control

**Batch: B7D2005****Sample Type: Solid****Reference (B7D2005-SRM1)**

Prepared: 4/26/2017 Analyzed: 5/12/2017

**Targets**

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit
Aluminum	93.1		9.9	115		80.9	47.6-152.2
Barium	1.5		1.0	1.60		90.7	62.5-137.5
Beryllium	4.7		0.5	4.90		96.0	61.2-138.7
Cadmium	9.6		0.5	10.9		88.4	70.6-128.4
Calcium	46,100		14.9	44,200		104	68.6-131.7
Chromium	25.1		1.0	27.1		92.5	68.3-131.7
Cobalt	36.0		2.0	37.4		96.4	64.7-135.3
Copper	1,660		2.0	1,770		93.8	74.6-126
Iron	6,120		2.5	6,470		94.6	66.2-133.8
Magnesium	29,700		14.9	29,200		102	70.2-129.8
Manganese	56.8		0.5	61.0		93.1	68.2-132
Nickel	15.2		2.0	16.3		93.5	55.2-145.4
Potassium	19.5		99.4	39.7		49.2	0-215
Silver	5.2		1.0	5.90		87.9	45.8-154.2
Sodium	15.2		49.7	72.5		21.0	0-298
Vanadium	17.0		2.0	17.6		96.3	65.9-134.6
Zinc	42.1		2.0	47.5		88.5	43.2-156.6

**Blank (B7D2605-BLK1)**

Prepared: 4/26/2017 Analyzed: 5/12/2017

**Targets**

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Aluminum	U		10.0
Barium	U		1.0
Beryllium	U		0.5
Cadmium	U		0.5
Calcium	U		15.0
Chromium	U		1.0
Cobalt	U		2.0
<b>Copper</b>	<b>5.6</b>		2.0
Iron	U		2.5
Magnesium	U		15.0



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7D2605

Sample Type: Solid

### Blank (B7D2605-BLK1)

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets (Continued)

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Manganese	U		0.5
Nickel	U		2.0
Potassium	U		100
Silver	U		1.0
Sodium	U		50.0
Vanadium	U		2.0
Zinc	U		2.0

### LCS (B7D2605-BS1)

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Aluminum	89.9		10.0	100	89.9	75-125
Barium	178		1.0	200	88.9	75-125
Beryllium	4.6		0.5	5.01	91.6	75-125
Cadmium	4.3		0.5	5.00	86.7	75-125
Calcium	9,130		15.0	10,000	91.3	75-125
Chromium	35.9		1.0	40.0	89.7	75-125
Cobalt	17.2		2.0	20.0	86.1	75-125
Copper	38.5		2.0	40.0	96.1	75-125
Iron	89.8		2.5	100	89.8	75-125
Magnesium	9,370		15.0	10,000	93.7	75-125
Manganese	35.2		0.5	40.0	88.1	75-125
Nickel	34.4		2.0	40.0	85.9	75-125
Potassium	9,350		100	10,000	93.5	75-125
Silver	4.4		1.0	5.00	88.2	75-125
Sodium	8,890		50.0	10,000	88.9	75-125
Vanadium	37.0		2.0	40.0	92.4	75-125
Zinc	85.9		2.0	100	85.9	75-125



# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

## Metals by CLP ILMO5.3 - ICP - Quality Control

**Batch: B7D2605****Sample Type: Solid**

### Matrix Spike (B7D2605-MS1)

**Source: 1704017-21**

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	4,670		10.1	101	2,870	NR	# 75-125
Barium	212		1.0	202	43.1	83.6	75-125
Beryllium	4.8		0.5	5.06	0.1	92.7	75-125
Cadmium	5.9		0.5	5.05	4.2	33.0	# 75-125
Calcium	10,300		15.1	10,100	1,170	90.7	75-125
Chromium	44.8		1.0	40.4	14.3	75.3	75-125
Cobalt	20.6		2.0	20.2	5.0	77.2	75-125
Copper	92.1		2.0	40.4	83.9	20.4	# 75-125
Iron	10,600		2.5	101	32,600	NR	# 75-125
Magnesium	10,200		15.1	10,100	466	96.4	75-125
Manganese	181		0.5	40.4	339	NR	# 75-125
Nickel	45.4		2.0	40.4	40.7	11.5	# 75-125
Potassium	10,200		101	10,100	398	97.3	75-125
Silver	4.6		1.0	5.05	0.2	89.1	75-125
Sodium	9,280		50.5	10,100	22.2	91.7	75-125
Vanadium	47.3		2.0	40.4	10.6	90.9	75-125
Zinc	233		2.0	101	243	NR	# 75-125

### Matrix Spike (B7D2605-MS2)

**Source: 1704017-28**

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	6,360		10.5	105	4,680	NR	# 75-125
Barium	231		1.0	210	56.2	83.5	75-125
Beryllium	5.2		0.5	5.26	1.0	79.0	75-125
Cadmium	5.1		0.5	5.25	1.8	62.4	# 75-125
Calcium	10,600		15.7	10,500	1,510	87.0	75-125
Chromium	46.7		1.0	42.0	11.9	82.9	75-125
Cobalt	22.1		2.1	21.0	8.4	65.1	# 75-125
Copper	43.9		2.1	42.0	4.1	94.8	75-125
Iron	9,140		2.6	105	21,900	NR	# 75-125
Magnesium	10,600		15.7	10,500	1,340	88.5	75-125



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7D2605

Sample Type: Solid

### Matrix Spike (B7D2605-MS2)

Source: 1704017-28

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Manganese	148		0.5	42.0	241	NR #	75-125
Nickel	44.4		2.1	42.0	26.8	42.0 #	75-125
Potassium	10,500		105	10,500	922	91.1	75-125
Silver	4.7		1.0	5.25	0.2	85.7	75-125
Sodium	9,560		52.5	10,500	446	86.9	75-125
Vanadium	52.6		2.1	42.0	23.7	68.7 #	75-125
Zinc	97.6		2.1	105	15.0	78.7	75-125

### Matrix Spike Dup (B7D2605-MSD1)

Source: 1704017-21

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Aluminum	4,490		10.1	101	2,870	NR #	75-125	3.82	20
Barium	212		1.0	202	43.1	83.7	75-125	0.19	20
Beryllium	4.8		0.5	5.07	0.1	92.2	75-125	0.32	20
Cadmium	6.6		0.5	5.06	4.2	46.8 #	75-125	11.3	20
Calcium	10,300		15.2	10,100	1,170	90.3	75-125	0.25	20
Chromium	44.9		1.0	40.5	14.3	75.6	75-125	0.34	20
Cobalt	20.5		2.0	20.2	5.0	76.7	75-125	0.30	20
Copper	84.1		2.0	40.5	83.9	0.547 #	75-125	9.09	20
Iron	10,500		2.5	101	32,600	NR #	75-125	0.55	20
Magnesium	10,200		15.2	10,100	466	96.2	75-125	0.01	20
Manganese	165		0.5	40.4	339	NR #	75-125	9.61	20
Nickel	43.8		2.0	40.5	40.7	7.48 #	75-125	3.61	20
Potassium	10,200		101	10,100	398	97.3	75-125	0.26	20
Silver	4.7		1.0	5.06	0.2	89.2	75-125	0.32	20
Sodium	9,370		50.6	10,100	22.2	92.4	75-125	0.95	20
Vanadium	46.9		2.0	40.4	10.6	89.9	75-125	0.72	20
Zinc	399		2.0	101	243	154 #	75-125	52.4 #	20



# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7D2605

Sample Type: Solid

### Matrix Spike Dup (B7D2605-MSD2)

Source: 1704017-28

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Aluminum	4,620		10.5	105	4,680	NR #	75-125	31.7 #	20
Barium	227		1.1	210	56.2	81.5	75-125	1.68	20
Beryllium	5.1		0.5	5.27	1.0	77.7	75-125	1.15	20
Cadmium	5.1		0.5	5.25	1.8	62.8 #	75-125	0.60	20
Calcium	10,500		15.8	10,500	1,510	85.1	75-125	1.72	20
Chromium	46.0		1.1	42.1	11.9	81.0	75-125	1.54	20
Cobalt	21.4		2.1	21.0	8.4	61.7 #	75-125	3.22	20
Copper	43.7		2.1	42.1	4.1	94.3	75-125	0.30	20
Iron	7,990		2.6	105	21,900	NR #	75-125	13.4	20
Magnesium	10,400		15.8	10,500	1,340	86.5	75-125	1.77	20
Manganese	156		0.5	42.0	241	NR #	75-125	5.30	20
Nickel	43.2		2.1	42.1	26.8	39.0 #	75-125	2.75	20
Potassium	10,300		105	10,500	922	89.0	75-125	1.99	20
Silver	4.7		1.1	5.25	0.2	85.9	75-125	0.39	20
Sodium	9,450		52.5	10,500	446	85.6	75-125	1.22	20
Vanadium	51.4		2.1	42.0	23.7	65.7 #	75-125	2.35	20
Zinc	100		2.1	105	15.0	81.1	75-125	2.71	20

### Reference (B7D2605-SRM1)

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Aluminum	83.6		10.0	115		72.7	47.6-152.2		
Barium	1.4		1.0	1.60		84.9	62.5-137.5		
Beryllium	4.3		0.5	4.90		88.7	61.2-138.7		
Cadmium	9.0		0.5	10.9		82.8	70.6-128.4		
Calcium	41,600		14.9	44,200		94.1	68.6-131.7		
Chromium	23.4		1.0	27.1		86.3	68.3-131.7		
Cobalt	31.7		2.0	37.4		84.6	64.7-135.3		
Copper	1,510		2.0	1,770		85.1	74.6-126		
Iron	5,440		2.5	6,470		84.0	66.2-133.8		
Magnesium	26,700		14.9	29,200		91.5	70.2-129.8		



Environmental Protection Agency

# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7D2605

Sample Type: Solid

### Reference (B7D2605-SRM1)

Prepared: 4/26/2017 Analyzed: 5/12/2017

#### Targets (Continued)

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit
Manganese	51.8		0.5	61.0		84.9	68.2-132	
Nickel	13.4		2.0	16.3		82.3	55.2-145.4	
Potassium	19.3		99.6	39.7		48.7	0-215	
Silver	4.4		1.0	5.90		74.7	45.8-154.2	
Sodium	14.7		49.8	72.5		20.3	0-298	
Vanadium	15.0		2.0	17.6		85.5	65.9-134.6	
Zinc	37.4		2.0	47.5		78.7	43.2-156.6	

### Blank (B7E1704-BLK1)

Prepared: 5/18/2017 Analyzed: 5/19/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Aluminum	U		100
Barium	U		10.0
Beryllium	U		5.0
Cadmium	U		5.0
Calcium	U		150
Chromium	U		10.0
Cobalt	U		20.0
Copper	U		20.0
Iron	U		25.0
Magnesium	U		150
Manganese	U		5.0
Nickel	U		20.0
Potassium	U		1,000
Silver	U		10.0
Sodium	U		500
Vanadium	U		20.0
Zinc	U		20.0



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## Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B7E1704

Sample Type: Liquid

### LCS (B7E1704-BS1)

Prepared: 5/18/2017 Analyzed: 5/19/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aluminum	989		100	1,000	98.9	75-125
Barium	1,900		10.0	2,000	95.0	75-125
Beryllium	48.2		5.0	50.1	96.3	75-125
Cadmium	46.8		5.0	50.0	93.7	75-125
Calcium	97,000		150			75-125
Chromium	385		10.0	400	96.1	75-125
Cobalt	184		20.0	200	92.1	75-125
Copper	383		20.0	400	95.7	75-125
Iron	961		25.0	1,000	96.1	75-125
Magnesium	100,000		150			75-125
Manganese	379		5.0	400	94.8	75-125
Nickel	365		20.0	400	91.2	75-125
Potassium	100,000		1,000			75-125
Silver	46.9		10.0	50.0	93.7	75-125
Sodium	97,700		500			75-125
Vanadium	394		20.0	400	98.5	75-125
Zinc	916		20.0	1,000	91.6	75-125



Environmental Protection Agency

# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B7D1906

Sample Type: Solid

### Blank (B7D1906-BLK1)

Prepared: 4/19/2017 Analyzed: 5/5/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Antimony	U		0.5
Arsenic	U		0.5
Lead	U		0.5
Selenium	U		1.0
Thallium	U		0.5

### LCS (B7D1906-BS1)

Prepared: 4/19/2017 Analyzed: 5/5/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Antimony	19.3		0.5	20.0	96.4	85-115
Arsenic	17.8		0.5	20.0	88.8	85-115
Lead	19.9		0.5	20.0	99.5	85-115
Selenium	18.1		1.0	20.0	90.7	85-115
Thallium	19.1		0.5	20.0	95.3	85-115

### Matrix Spike (B7D1906-MS1)

Source: 1704016-02

Prepared: 4/19/2017 Analyzed: 5/5/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Antimony	13.9		0.5	21.2	0.4	63.8 #	75-125
Arsenic	22.4		0.5	21.2	3.2	90.3	75-125
Lead	161		0.5	21.2	146	72.9 #	75-125
Selenium	15.1		1.1	21.2	0.4	69.1 #	75-125
Thallium	17.8		0.5	21.2	0.02	84.0	75-125

### Matrix Spike (B7D1906-MS2)

Source: 1704016-02

Prepared: 4/19/2017 Analyzed: 5/5/2017



Environmental Protection Agency

# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B7D1906

Sample Type: Solid

### Matrix Spike (B7D1906-MS2)

Source: 1704016-06

Prepared: 4/19/2017 Analyzed: 5/5/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Antimony	16.9		0.5	21.0	0.05	80.4	75-125
Arsenic	19.4		0.5	21.0	0.7	89.1	75-125
Lead	29.1		0.5	21.0	9.9	91.7	75-125
Selenium	18.0		1.0	21.0	0.3	84.8	75-125
Thallium	20.4		0.5	21.0	0.3	95.9	75-125

### Matrix Spike (B7D1906-MS3)

Source: 1704016-18

Prepared: 4/19/2017 Analyzed: 5/5/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Antimony	13.3		0.5	20.7	0.08	63.8 #	75-125
Arsenic	19.4		0.5	20.7	1.9	84.4	75-125
Lead	24.5		0.5	20.7	3.9	99.7	75-125
Selenium	14.4		1.0	20.7	0.2	68.4 #	75-125
Thallium	19.7		0.5	20.7	0.01	95.2	75-125

### Matrix Spike Dup (B7D1906-MSD1)

Source: 1704016-02

Prepared: 4/19/2017 Analyzed: 5/5/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD RPD	Limit
Antimony	13.5		0.5	21.3	0.4	61.6 #	75-125	3.27 20
Arsenic	17.0		0.5	21.3	3.2	65.0 #	75-125	27.1 # 20
Lead	169		0.5	21.3	146	106	75-125	4.34 20
Selenium	9.7		1.1	21.3	0.4	43.5 #	75-125	43.7 # 20
Thallium	18.3		0.5	21.3	0.02	85.8	75-125	2.35 20

### Matrix Spike Dup (B7D1906-MSD2)

Source: 1704016-06

Prepared: 4/19/2017 Analyzed: 5/5/2017



Environmental Protection Agency

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## Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B7D1906

Sample Type: Solid

### Matrix Spike Dup (B7D1906-MSD2)

Source: 1704016-06

Prepared: 4/19/2017 Analyzed: 5/5/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Antimony	16.7		0.5	21.3	0.05	78.1	75-125	0.97	20
Arsenic	19.7		0.5	21.3	0.7	88.9	75-125	1.54	20
Lead	31.4		0.5	21.3	9.9	101	75-125	7.50	20
Selenium	18.3		1.1	21.3	0.3	84.3	75-125	1.20	20
Thallium	20.7		0.5	21.3	0.3	96.0	75-125	1.90	20

### Matrix Spike Dup (B7D1906-MSD3)

Source: 1704016-18

Prepared: 4/19/2017 Analyzed: 5/5/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Antimony	13.7		0.5	20.9	0.08	64.9 #	75-125	3.09	20
Arsenic	19.6		0.5	20.9	1.9	84.5	75-125	1.34	20
Lead	23.8		0.5	20.9	3.9	94.9	75-125	3.08	20
Selenium	14.3		1.0	20.9	0.2	67.0 #	75-125	0.73	20
Thallium	19.8		0.5	20.9	0.01	94.5	75-125	0.57	20

### Reference (B7D1906-SRM1)

Prepared: 4/19/2017 Analyzed: 5/5/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Antimony	67.1		2.5	66.0		102	41.8-157.6		
Arsenic	222		2.5	253		87.7	60.8-139		
Lead	59.1		2.5	56.9		104	72.7-127.2		
Selenium	10.3		4.9	10.0		103	41-159		
Thallium	8.9		2.5	9.50		94.1	30.5-169.5		

### Blank (B7D2006-BLK1)

Prepared: 4/26/2017 Analyzed: 5/8/2017



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B7D2006

Sample Type: Solid

### Blank (B7D2006-BLK1)

Prepared: 4/26/2017 Analyzed: 5/8/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Antimony	U		0.5
Arsenic	U		0.5
Lead	U		0.5
Selenium	U		1.0
Thallium	U		0.5

### LCS (B7D2006-BS1)

Prepared: 4/26/2017 Analyzed: 5/8/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Antimony	19.8		0.5	20.0	98.9	85-115
Arsenic	18.8		0.5	20.0	94.1	85-115
Lead	18.0		0.5	20.0	89.9	85-115
Selenium	19.2		1.0	20.0	96.1	85-115
Thallium	18.7		0.5	20.0	93.5	85-115

### Matrix Spike (B7D2006-MS1)

Source: 1704017-04

Prepared: 4/26/2017 Analyzed: 5/8/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Antimony	11.4		0.5	20.2	0.09	55.7 #	75-125
Arsenic	20.5		0.5	20.2	1.5	93.9	75-125
Lead	22.1		0.5	20.2	0.5	107	75-125
Selenium	17.9		1.0	20.2	0.1	87.8	75-125
Thallium	19.5		0.5	20.2		96.1	75-125

### Matrix Spike (B7D2006-MS2)

Source: 1704017-12

Prepared: 4/26/2017 Analyzed: 5/8/2017



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## Metals by CLP ILMO5.3 - ICP/MS - Quality Control

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**Batch: B7D2006****Sample Type: Solid**

### Matrix Spike (B7D2006-MS2)

**Source: 1704017-12**

Prepared: 4/26/2017 Analyzed: 5/8/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Antimony	13.7		0.5	21.5	0.09	63.4 #	75-125
Arsenic	21.1		0.5	21.5	1.8	89.5	75-125
Lead	21.8		0.5	21.5	2.9	87.8	75-125
Selenium	17.8		1.1	21.5	0.1	82.2	75-125
Thallium	19.6		0.5	21.5		91.2	75-125

### Matrix Spike Dup (B7D2006-MSD1)

**Source: 1704017-04**

Prepared: 4/26/2017 Analyzed: 5/8/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD Limit
Antimony	10.7		0.5	20.5	0.09	51.9 #	75-125	5.84 20
Arsenic	20.7		0.5	20.5	1.5	93.5	75-125	0.77 20
Lead	21.7		0.5	20.5	0.5	103	75-125	2.10 20
Selenium	18.1		1.0	20.5	0.1	87.7	75-125	1.09 20
Thallium	19.8		0.5	20.5		96.8	75-125	1.91 20

### Matrix Spike Dup (B7D2006-MSD2)

**Source: 1704017-12**

Prepared: 4/26/2017 Analyzed: 5/8/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD Limit
Antimony	13.2		0.5	21.0	0.09	62.4 #	75-125	3.92 20
Arsenic	19.8		0.5	21.0	1.8	85.6	75-125	6.18 20
Lead	21.1		0.5	21.0	2.9	86.9	75-125	3.02 20
Selenium	16.7		1.1	21.0	0.1	78.9	75-125	6.48 20
Thallium	18.9		0.5	21.0		89.7	75-125	4.03 20

### Reference (B7D2006-SRM1)

Prepared: 4/26/2017 Analyzed: 5/8/2017



Environmental Protection Agency

## Region 6 Laboratory

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### Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B7D2006

Sample Type: Solid

#### Reference (B7D2006-SRM1)

Prepared: 4/26/2017 Analyzed: 5/8/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit
Antimony	76.5		2.5	66.0		116	41.8-157.6	
Arsenic	269		2.5	253		106	60.8-139	
Lead	45.1		2.5	56.9		79.2	72.7-127.2	
Selenium	10.8		5.0	10.0		108	41-159	
Thallium	7.2		2.5	9.50		75.4	30.5-169.5	

#### Blank (B7D2606-BLK1)

Prepared: 4/26/2017 Analyzed: 5/9/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Antimony	U		0.5
Arsenic	U		0.5
Lead	U		0.5
Selenium	U		1.0
Thallium	U		0.5

#### LCS (B7D2606-BS1)

Prepared: 4/26/2017 Analyzed: 5/9/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	RPD Limits
Antimony	19.1		0.5	20.0	95.3	85-115
Arsenic	18.5		0.5	20.0	92.5	85-115
Lead	19.4		0.5	20.0	96.9	85-115
Selenium	19.0		1.0	20.0	95.0	85-115
Thallium	18.4		0.5	20.0	92.2	85-115

#### Matrix Spike (B7D2606-MS1)

Source: 1704017-21

Prepared: 4/26/2017 Analyzed: 5/9/2017



# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP/MS - Quality Control

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**Batch: B7D2606****Sample Type: Solid**

### Matrix Spike (B7D2606-MS1)

**Source: 1704017-21**

Prepared: 4/26/2017 Analyzed: 5/9/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Antimony	14.0		0.5	20.2	0.7	65.9 #	75-125
Arsenic	21.8		0.5	20.2	3.1	92.7	75-125
Lead	253		0.5	20.2	366	NR	75-125
Selenium	18.5		1.0	20.2	0.5	89.2	75-125
Thallium	18.4		0.5	20.2		90.8	75-125

### Matrix Spike (B7D2606-MS2)

**Source: 1704017-28**

Prepared: 4/26/2017 Analyzed: 5/9/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Antimony	10.2		0.5	21.5	0.09	47.0 #	75-125
Arsenic	23.2		0.5	21.5	13.6	44.6 #	75-125
Lead	32.4		0.5	21.5	6.4	121	75-125
Selenium	19.7		1.1	21.5	0.5	89.0	75-125
Thallium	20.9		0.5	21.5		97.2	75-125

### Matrix Spike Dup (B7D2606-MSD1)

**Source: 1704017-21**

Prepared: 4/26/2017 Analyzed: 5/9/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD RPD	Limit
Antimony	14.8		0.5	20.2	0.7	69.8 #	75-125	5.30 20
Arsenic	21.3		0.5	20.2	3.1	90.3	75-125	2.34 20
Lead	241		0.5	20.2	366	NR	75-125	4.82 20
Selenium	19.1		1.0	20.2	0.5	92.1	75-125	3.00 20
Thallium	18.6		0.5	20.2		92.1	75-125	1.27 20

### Matrix Spike Dup (B7D2606-MSD2)

**Source: 1704017-28**

Prepared: 4/26/2017 Analyzed: 5/9/2017



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## Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B7D2606

Sample Type: Solid

### Matrix Spike Dup (B7D2606-MSD2)

Source: 1704017-28

Prepared: 4/26/2017 Analyzed: 5/9/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Antimony	11.5		0.5	20.9	0.09	54.7 #	75-125	12.3	20
Arsenic	21.6		0.5	20.9	13.6	38.3 #	75-125	7.01	20
Lead	33.6		0.5	20.9	6.4	130 #	75-125	3.65	20
Selenium	17.9		1.0	20.9	0.5	82.9	75-125	9.55	20
Thallium	20.1		0.5	20.9		96.0	75-125	4.02	20

### Reference (B7D2606-SRM1)

Prepared: 4/26/2017 Analyzed: 5/9/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Antimony	68.5		2.5	66.0		104	41.8-157.6		
Arsenic	231		2.5	253		91.4	60.8-139		
Lead	52.6		2.5	56.9		92.5	72.7-127.2		
Selenium	12.1		5.0	10.0		121	41-159		
Thallium	7.7		2.5	9.50		81.2	30.5-169.5		

### Blank (B7D2608-BLK1)

Prepared: 4/26/2017 Analyzed: 5/25/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Antimony	U		2.0
Arsenic	U		2.0
Lead	U		2.0
Selenium	U		4.0
Thallium	U		2.0

### LCS (B7D2608-BS1)

Prepared: 4/26/2017 Analyzed: 5/9/2017



Environmental Protection Agency

# Region 6 Laboratory

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## Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B7D2608

Sample Type: Liquid

### LCS (B7D2608-BS1)

Prepared: 4/26/2017 Analyzed: 5/9/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Antimony	198		2.0	200	98.8	85-115
Arsenic	190		2.0	200	94.8	85-115
Lead	202		2.0	200	101	85-115
Selenium	193		4.0	200	96.3	85-115
Thallium	195		2.0	200	97.4	85-115



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## Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B7E0104

Sample Type: Liquid

### Blank (B7E0104-BLK1)

Prepared: 5/1/2017 Analyzed: 5/2/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

### Blank (B7E0104-BLK2)

Prepared: 5/1/2017 Analyzed: 5/2/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

### Blank (B7E0104-BLK3)

Prepared: 5/1/2017 Analyzed: 5/2/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

### LCS (B7E0104-BS1)

Prepared: 5/1/2017 Analyzed: 5/2/2017

#### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Mercury	1.05		0.200	1.00	105	80-120

### Matrix Spike (B7E0104-MS1)

Source: 1704009-01

Prepared: 5/1/2017 Analyzed: 5/2/2017

#### Targets



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## Metals by CLP ILM05.3 - CVAAS - Quality Control

Batch: B7E0104

Sample Type: Liquid

### Matrix Spike (B7E0104-MS1)

Source: 1704009-01

Prepared: 5/1/2017 Analyzed: 5/2/2017

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Mercury	1.09		0.200	1.00		109	75-125

### Matrix Spike Dup (B7E0104-MSD1)

Source: 1704009-01

Prepared: 5/1/2017 Analyzed: 5/2/2017

### Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	1.09		0.200	1.00		109	75-125	0.00	20

### Blank (B7E0216-BLK1)

Prepared: 5/3/2017 Analyzed: 5/3/2017

### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

### Blank (B7E0216-BLK2)

Prepared: 5/3/2017 Analyzed: 5/3/2017

### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

### Blank (B7E0216-BLK3)

Prepared: 5/3/2017 Analyzed: 5/3/2017

### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080



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### Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B7E0216

Sample Type: Solid

#### Blank (B7E0216-BLK4)

Prepared: 5/3/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

#### LCS (B7E0216-BS1)

Prepared: 5/3/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Mercury	0.394		0.080	0.400	98.4	80-120

#### Matrix Spike (B7E0216-MS1)

Source: 1704016-02

Prepared: 5/3/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Mercury	0.514		0.062	0.311	0.285	73.4 #	75-125

#### Matrix Spike (B7E0216-MS2)

Source: 1704016-06

Prepared: 5/3/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Mercury	0.311		0.067	0.336	0.022	85.9	75-125

#### Matrix Spike (B7E0216-MS3)

Source: 1704016-18

Prepared: 5/3/2017 Analyzed: 5/3/2017

#### Targets



Environmental Protection Agency

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## Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B7E0216

Sample Type: Solid

### Matrix Spike (B7E0216-MS3)

Source: 1704016-18

Prepared: 5/3/2017 Analyzed: 5/3/2017

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Mercury	0.297		0.067	0.335	0.009	85.9	75-125

### Matrix Spike Dup (B7E0216-MSD1)

Source: 1704016-02

Prepared: 5/3/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	0.703		0.065	0.327	0.285	128 #	75-125	31.2 #	20

### Matrix Spike Dup (B7E0216-MSD2)

Source: 1704016-06

Prepared: 5/3/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	0.300		0.065	0.324	0.022	85.8	75-125	3.45	20

### Matrix Spike Dup (B7E0216-MSD3)

Source: 1704016-18

Prepared: 5/3/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	0.309		0.068	0.338	0.009	88.6	75-125	3.76	20

### Reference (B7E0216-SRM1)

Prepared: 5/3/2017 Analyzed: 5/3/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	2.18		0.800	3.59		60.7	51.8-148.2		



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### Metals by CLP ILM05.3 - CVAAS - Quality Control

Batch: B7E0806

Sample Type: Solid

#### Blank (B7E0806-BLK1)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

#### Blank (B7E0806-BLK2)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

#### Blank (B7E0806-BLK3)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

#### Blank (B7E0806-BLK4)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

#### LCS (B7E0806-BS1)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets



Environmental Protection Agency

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## Metals by CLP ILM05.3 - CVAAS - Quality Control

Batch: B7E0806

Sample Type: Solid

### LCS (B7E0806-BS1)

Prepared: 5/10/2017 Analyzed: 5/10/2017

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Mercury	0.387		0.080	0.400	96.7	80-120

### Matrix Spike (B7E0806-MS1)

Source: 1704017-04

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Mercury	0.330		0.065	0.327	0.008	98.4	75-125

### Matrix Spike (B7E0806-MS2)

Source: 1704017-12

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Mercury	0.320		0.066	0.329	0.007	95.1	75-125

### Matrix Spike Dup (B7E0806-MSD1)

Source: 1704017-04

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	0.322		0.064	0.322	0.008	97.4	75-125	2.37	20

### Matrix Spike Dup (B7E0806-MSD2)

Source: 1704017-12

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	0.317		0.066	0.329	0.007	93.9	75-125	1.24	20



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## Metals by CLP ILM05.3 - CVAAS - Quality Control

Batch: B7E0806

Sample Type: Solid

### Reference (B7E0806-SRM1)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit
Mercury	3.58		0.777	3.59		99.8	51.8-148.2	

### Blank (B7E0807-BLK1)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

### Blank (B7E0807-BLK2)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

### Blank (B7E0807-BLK3)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

### Blank (B7E0807-BLK4)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets



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## Metals by CLP ILM05.3 - CVAAS - Quality Control

Batch: B7E0807

Sample Type: Solid

### Blank (B7E0807-BLK4)

Prepared: 5/10/2017 Analyzed: 5/10/2017

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

### LCS (B7E0807-BS1)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Mercury	0.378		0.080	0.400	94.4	80-120

### Matrix Spike (B7E0807-MS1)

Source: 1704017-21

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Mercury	1.44		0.072	0.359	0.955	134 #	75-125

### Matrix Spike (B7E0807-MS2)

Source: 1704017-28

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Mercury	0.387		0.062	0.312	0.074	100	75-125

### Matrix Spike Dup (B7E0807-MSD1)

Source: 1704017-21

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit
Mercury	1.19		0.068	0.342	0.955	69.2 #	75-125	18.6 20



Environmental Protection Agency

## Region 6 Laboratory

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### Metals by CLP ILM05.3 - CVAAS - Quality Control

Batch: B7E0807

Sample Type: Solid

#### Matrix Spike Dup (B7E0807-MSD2)

Source: 1704017-28

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	0.363		0.066	0.330	0.074	87.7	75-125	6.42	20

#### Reference (B7E0807-SRM1)

Prepared: 5/10/2017 Analyzed: 5/10/2017

#### Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Mercury	3.54		0.800	3.59		98.7	51.8-148.2		



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## SURROGATE SUMMARY REPORT

### VOA CLP Low Level (0.5)

#### Liquid

LAB NUMBER	1,2-DCE-d4	TOL-d8	4-BFB
1704018-01	95.0	99.3	95.1
1704018-02	93.8	100	97.4
1704018-03	91.2	101	97.8
B7D2703-BLK1	91.6	97.0	93.7
B7D2703-BS1	97.6	99.8	99.7

#### QC LIMITS

1,2-DCE-d4 = 1,2-Dichloroethane-d4  
TOL-d8 = Toluene-d8  
4-BFB = 4-Bromofluorobenzene

### VOA CLP OLM04.2/5035 (Dry Wt)

#### Solid

LAB NUMBER	1,2-DCE-d4	TOL-d8	4-BFB
1704016-04	89.9	97.0	84.6
1704016-05	98.8	99.9	95.8
1704016-18	93.2	98.2	90.5
1704017-13	104	97.0	81.4
1704017-18	99.7	96.6	95.6
1704017-19	104	98.9	98.5
1704017-20	98.9	96.6	93.2
1704017-22	98.5	140 #	116 #
1704017-22RE1	100	99.7	104
1704017-25	97.0	96.3	90.6
1704017-28	95.3	93.3	89.2
1704017-30	95.0	97.7	92.8
1704018-04	109	94.4	78.4
1704018-04RE1	102	102	97.3
1704018-07	101	120	109
1704018-07RE1	104	120	158 #
B7D1808-BLK1	94.4	98.6	99.7
B7D1808-BLK2	100	94.6	95.5
B7D1808-BLK3	102	101	98.8
B7D1808-BLK4	99.0	96.3	100



Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100      Fax:(281)983-2248

## SURROGATE SUMMARY REPORT

### VOA CLP OLM04.2/5035 (Dry Wt)

#### Solid

LAB NUMBER	1,2-DCE-d4	TOL-d8	4-BFB
B7D1808-BLK5	99.8	98.9	100
B7D1808-BS1	95.5	96.9	97.9
B7D1808-BS2	103	96.5	98.6
B7D1808-BS3	98.9	98.2	99.3
B7D1808-BS4	104	100	104
B7D1808-BS5	102	99.9	103
B7D1808-MS1	99.8	102	99.6
B7D1808-MSD1	88.8	116	65.6 #

#### QC LIMITS

1,2-DCE-d4 = 1,2-Dichloroethane-d4  
TOL-d8 = Toluene-d8  
4-BFB = 4-Bromofluorobenzene

### VOA CLP Routine List (Dry Wt)

#### Solid

LAB NUMBER	1,2-DCE-d4	TOL-d8	4-BFB
1704017-12	111	100	233 #
1704017-13	94.7	98.2	100
1704018-04	94.0	99.0	103
1704018-05	95.9	98.2	155 #
1704018-06	94.1	103	317 #
1704018-07	89.8	97.4	107
1704018-08	89.1	95.2	123 #
1704018-09	91.7	98.0	103
1704018-10	90.1	97.6	117 #
B7F0902-BLK1	98.2	100	98.0
B7F0902-BS1	101	104	104

#### QC LIMITS

1,2-DCE-d4 = 1,2-Dichloroethane-d4  
TOL-d8 = Toluene-d8  
4-BFB = 4-Bromofluorobenzene



# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100      Fax:(281)983-2248

## Notes and Definitions

The units for surrogates on VOA solid samples are reported in µg/L instead of the expected µg/Kg for a solid sample. The difference is because the surrogate spiking procedure is a post sample preparation addition, and the units are based on the concentration of the surrogate in the diluted extract, not the solid sample.

UJ	The analyte was not detected at or above the reported value. The reported value is an estimate.
RL	The reporting limit for this analyte was raised because absence or presence at the routine or lower value could not be verified.
J	The identification of the analyte is acceptable; the reported value is an estimate.
B	Blank Related - The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion and/or analysis blank. Presence in the sample is therefore suspect.
>CR	The value reported is above the calibration range and should be considered estimated. The sample was re-analyzed using methanol extraction for medium level concentrations and this analyte is re-reported under that analysis.
A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
ABN	Acid Base Neutrals (Semivolatile Compounds)
AES	Atomic Emission Spectrometer
BS	Blank Spike
CVAA	Cold Vapor Atomic Absorption
DCB	Decachlorobiphenyl
ECD	Electron Capture Detector
GC	Gas Chromatograph
ICP	Inductively Coupled Plasma
ISTD	Internal Standard
LCS	Laboratory Control Sample
MS	Mass Spectrometer
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not Applicable



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100      Fax:(281)983-2248

NPD      Nitrogen Phosphorous Detector

NR      Not Reported

PCB      Polychlorinatedbiphenyl

RL      Reporting Limit

RT      Retention Time

RPD      Relative Percent Difference

TCLP      Toxicity Characteristic Leaching Procedure

TCMX      Tetrachloro-meta-xylene

U      Undetected

VOA      Volatile Organic Analysis

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

USEPA CLP COC (LAB COPY)  
DateShipped: 4/17/2017  
CarrierName: FedEx  
Address: 7789 2328 4445

CHAIN OF CUSTODY RECORD

Case 1

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ER-170417-1		Water/ Aaron Bugher	Grab	TM+Hg(35)	1055 (Ice to 4C & HNO3) (1)	ER-170417-1	04/17/2017 15:45	
LPA-SB-24-0.5		Soil/ Will Ganter	Composite	TM+Hg(35)	1465 (Ice to 4C) (1)	LPA-SB-24-0.5	04/17/2017 15:30	
LPA-SB-24-10.0		Soil/ Will Ganter	Composite	TM+Hg(35)	1464 (Ice to 4C) (1)	LPA-SB-24-10.0	04/17/2017 15:45	
LPA-SB-24-10.0-D		Soil/ Will Ganter	Composite	TM+Hg(35)	1461 (Ice to 4C) (1)	LPA-SB-24-10.0-D	04/17/2017 15:40	
LPA-SB-24-2.0		Soil/ Will Ganter	Composite	TM+Hg(35)	1463 (Ice to 6C) (1)	LPA-SB-24-2.0	04/17/2017 15:35	
LPA-SB-24-20.0		Soil/ Will Ganter	Composite	TM+Hg(35)	1466 (Ice to 4C) (1)	LPA-SB-24-20.0	04/17/2017 15:50	
LPA-SB-24-6.0		Soil/ Will Ganter	Composite	TM+Hg(35)	1462 (Ice to 4C) (1)	LPA-SB-24-6.0	04/17/2017 15:40	
WPA-SB-01-0.5		Soil/ Will Ganter	Composite	TM+Hg(35)	1468 (Ice to 4C) (1)	WPA-SB-01-0.5	04/17/2017 16:45	
WPA-SB-01-2.0		Soil/ Will Ganter	Composite	TM+Hg(35)	1469 (Ice to 4C) (1)	WPA-SB-01-2.0	04/17/2017 16:50	

Sample(s) to be used for Lab QC: LPA-SB-24-0.5 Tag 1465

Análisis Key TMHs=Total Mates t Ha

**Shipment for Case Complete? N  
Samples Transferred From Chain**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>John Blyth EA</i>	4-17-17 1800	<i>John Blyth EA</i>	4-17-17 1800	
	<i>John Blyth EA</i>	4-17-17 2000	<i>FedEx (carrier)</i>	4-17-17 2000	
			<i>J. Cheek</i>	4-18-17 9:10	

$$\text{Temp}_{\text{B1anlc}} = 1^{\circ}\text{C}$$

USEPA CLP COC (LAB COPY)  
 Date Shipped: 4/17/2017  
 Carrier Name: FedEx  
 Airbill No: 7789-2014 0753

## CHAIN OF CUSTODY RECORD

Case #

No: 6-041717-1408E-0079  
 Lab: EPA Region 6 Laboratory  
 Lab Contact: Christy Warren  
 Lab Phone: 281-23-2137

Sample Identifier	CLP	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
LPA-SB-21-0-5		Soil/ Will Gantner	Composite	TM+Hg(35)	1446 (Ice to 6C) (1)	LPA-SB-21-0-5	04/17/2017 12:15	
LPA-SB-21-2-0		Soil/ Will Gantner	Composite	TM+Hg(35)	1448 (Ice to 6C) (1)	LPA-SB-21-2-0	04/17/2017 12:20	
LPA-SB-21-6-0		Soil/ Will Gantner	Composite	TM+Hg(35)	1449 (Ice to 6C) (1)	LPA-SB-21-6-0	04/17/2017 12:25	
LPA-SB-21-8-5		Soil/ Will Gantner	Composite	TM+Hg(35)	1447 (Ice to 6C) (1)	LPA-SB-21-8-5	04/17/2017 12:30	
LPA-SB-29-0-5		Soil/ Will Gantner	Composite	TM+Hg(35)	1450 (Ice to 4C) (1)	LPA-SB-29-0-5	04/17/2017 14:30	
LPA-SB-29-10-0		Soil/ Will Gantner	Composite	TM+Hg(35)	1453 (Ice to 4C) (1)	LPA-SB-29-10-0	04/17/2017 14:45	
LPA-SB-29-16-5		Soil/ Will Gantner	Composite	TM+Hg(35)	1454 (Ice to 4C) (1)	LPA-SB-29-16-5	04/17/2017 14:50	
LPA-SB-29-2-0		Soil/ Will Gantner	Composite	TM+Hg(35)	1451 (Ice to 4C) (1)	LPA-SB-29-2-0	04/17/2017 14:35	
LPA-SB-29-6-0		Soil/ Will Gantner	Composite	TM+Hg(35)	1452 (Ice to 4C) (1)	LPA-SB-29-6-0	04/17/2017 14:40	

Sample(s) to be used for Lab QC: LPA-SB-21-0-5 Tag 1446

Analysis Key: TM+Hg= Total Metals + Hg

Shipment for Case Complete? N  
 Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Will Gantner EA	4-17-17 1600	Christy Warren EA	4-17-17 1800	
	Will Gantner EA	4-17-17 2000	FedEx(Courier)	4-17-17 2000	

4/18/17 / 9:10

J. Cross

Temp Blank = 1°

## USEPA CLP COC (LAB COPY)

Date Shipped: 4/17/2017

Carrier Name: FedEx

Airbill No: 7789 2019 7318

## CHAIN OF CUSTODY RECORD

No: 6-041717-141303-0080  
 Lab: EPA Region 6 Laboratory  
 Lab Contact: Christy Warren  
 Lab Phone: 281-981-2137

Case #:

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
LPA-SB-21-6.0	Soil/ Will Gantner	Composite	VOA(35), VOA Moisture(35)	2394 (Ice to 4C), 2397 (Ice to 4C) (4)	LPA-SB-21-6.0	04/17/2017 12:25		
LPA-SB-21-8.5	Soil/ Will Gantner	Composite	VOA(35), VOA Moisture(35)	2404 (Ice to 4C), 2407 (Ice to 4C) (4)	LPA-SB-21-8.5	04/17/2017 12:30		
WPA-SB-01-2.0	Soil/ Will Gantner	Composite	VOA(35), VOA Moisture(35)	20019 (Ice to 4C), 20020 (Ice to 4C) (12)	WPA-SB-01-2.0	04/17/2017 16:50		

Sample(s) to be used for Lab QC: WPA-SB-01-2.0 Tag 20019, WPA-SB-01-2.0 Tag 20020

Analysis Key: VOA=VOA, VOA Moisture=VOA Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Adam Bryan EA</i>	4-17-17 18:00	<i>Adam Bryan EA</i>	4-17-17 18:00	
	<i>Adam Bryan EA</i>	4-17-17 20:00	<i>FedEx Courier</i>	4-17-17 20:00	

*4/18/17 7:41:0**Temp Blank = 0° not frozen*

USEPA CLP COC (LAB COPY)

Date Shipped: 4/18/2017

Carrier Name: FedEx

Airbill/Inc: 7789 2568 5147

## CHAIN OF CUSTODY RECORD

Case #:

No: 6-041817-092707-0088  
 Lab: EPA Region 6 Laboratory  
 Lab Contact: Christy Warren  
 Lab Phone: 281-983-2137

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
LPA-SB-22-0.5	Soil/ Will Ganter	Composite	TM+Hg(35)	1475 (Ice to 4C) (1)	LPA-SB-02-0.5	04/18/2017 09:30		
LPA-SB-22-10.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1478 (Ice to 4C) (1)	LPA-SB-22-10.0	04/18/2017 09:45		
LPA-SB-22-18.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1479 (Ice to 4C) (1)	LPA-SB-22-18.0	04/18/2017 09:50		
LPA-SB-22-2.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1476 (Ice to 4C) (1)	LPA-SB-22-2.0	04/18/2017 09:35		
LPA-SB-22-6.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1477 (Ice to 4C) (1)	LPA-SB-22-6.0	04/18/2017 09:40		
WPA-SB-02-0.5	Soil/ Will Ganter	Composite	TM+Hg(35)	1471 (Ice to 4C) (1)	WPA-SB-02-0.5	04/18/2017 08:00		
WPA-SB-02-10.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1472 (Ice to 4C) (1)	WPA-SB-02-	04/18/2017 08:15		
WPA-SB-02-12.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1470 (Ice to 4C) (1)	10.0			
WPA-SB-02-2.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1473 (Ice to 4C) (1)	WPA-SB-02-2.0	04/18/2017 08:05		
WPA-SB-02-6.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1474 (Ice to 4C) (1)	WPA-SB-02-6.0	04/18/2017 08:10		

Sample(s) to be used for Lab QC: WPA-SB-02-0.5 Tag 1471

Analysis Key: TM+Hg= Total Metals + Hg

Shipment for Case Complete? N  
 Samples Transferred From Chain of Custody #

Item/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Will Hg	EA	4-18-17 18:00	Chris Burger EA	4-18-17 18:00	
Alan Burger	EA	4-18-17 2:00	JeffEx (crusher)	4-19-17 2:00	

Temp Blank = 0° not frozen

USEPA CLP COC (LAB COPY)

Date Shipped: 4/18/2017

Carrier Name:

Airbill No: 7789-2568-8021

## CHAIN OF CUSTODY RECORD

No: 6-041817-092746-0093  
 Lab: EPA Region 6 Laboratory  
 Lab Contact: Christy Warren  
 Lab Phone: 281-983-2137

Case #:

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WPA-SB-22-8-0-D	Soil/ Will Ganter	Composite	TM+Hg(35)	1486 (Ice to 4C) (1)	WPA-SB-22-8-0-D	04/18/2017 13:35		
LPA-SB-25-0-5	Soil/ Will Ganter	Composite	TM+Hg(35)	1483 (Ice to 4C) (1)	LPA-SB-25-0-5	04/18/2017 10:35		
LPA-SB-25-10-0	Soil/ Will Ganter	Composite	TM+Hg(35)	1482 (Ice to 4C) (1)	LPA-SB-25-10-0	04/18/2017 10:50		
LPA-SB-25-15-0	Soil/ Will Ganter	Composite	TM+Hg(35)	1484 (Ice to 4C) (1)	LPA-SB-25-15-0	04/18/2017 10:55		
LPA-SB-25-2-0	Soil/ Will Ganter	Composite	TM+Hg(35)	1481 (Ice to 4C) (1)	LPA-SB-25-2-0	04/18/2017 10:40		
LPA-SB-25-6-0	Soil/ Will Ganter	Composite	TM+Hg(35)	1480 (Ice to 4C) (1)	LPA-SB-25-6-0	04/18/2017 10:45		
WPA-SB-22-0-5	Soil/ Will Ganter	Composite	TM+Hg(35)	1485 (Ice to 4C) (1)	WPA-SB-22-0-5	04/18/2017 13:20		
WPA-SB-22-2-0	Soil/ Will Ganter	Composite	TM+Hg(35)	1487 (Ice to 4C) (1)	WPA-SB-22-2-0	04/18/2017 13:25		
WPA-SB-22-6-0	Soil/ Will Ganter	Composite	TM+Hg(35)	1488 (Ice to 4C) (1)	WPA-SB-22-6-0	04/18/2017 13:30		
WPA-SB-22-8-0	Soil/ Will Ganter	Composite	TM+Hg(35)	1486 (Ice to 4C) (1)	WPA-SB-22-8-0	04/18/2017 13:35		

Shipment for Case Complete? N			
Samples Transferred From Chain of Custody #			
Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)
Analysis Key: TM+Hg=Total Metals + Hg	W. Jig EA 4-18-17 (800)	4-18-17 1800	Christy Warren (Courier)

Sample(s) to be used for Lab QC: LPA-SB-25-0-5 Tag 1483

Analysis Key: TM+Hg=Total Metals + Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	W. Jig EA 4-18-17 (800)	4-18-17 1800	Christy Warren (Courier)	4-18-17 2000	4/19/17 8:55
	Aaron Bough EA 4-18-17 2000		J. Rose		

Temp Blank = 0° not frozen

USEPA CLP COC (LAB COPY)  
DateShipped: 4/18/2017  
CarrierName: FedEx  
AirbillNo: 7789 2569 0710

CHAIN OF CUSTODY RECORD

**No: 6-041817-092805-0096**  
Lab: EPA Region 6 Laboratory  
Lab Contact: Christy Warren  
Lab Phone: 281-983-2137

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WPA-SB-02-10.0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20035 (Ice to 4C), 20036 (Ice to 4C) (4)	WPA-SB-02-10.0	04/18/2017 08:15		
WPA-SB-02-12.0	Soil/ Will Ganter	Composite	VOA Moisture(35), VOA(35)	20029 (Ice to 4C), 20030 (Ice to 4C) (4)	WPA-SB-02-12.0	04/18/2017 08:20		
WPA-SB-22-6.0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20459 (Ice to 4C), 20460 (Ice to 4C) (4)	WPA-SB-22-6.0	04/18/2017 13:30		
WPA-SB-22-8.0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20449 (Ice to 4C), 20450 (Ice to 4C) (4)	WPA-SB-22-8.0	04/18/2017 13:35		
WPA-SB-22-8.0-D	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	14000 (Ice to 4C), 14001 (Ice to 4C) (4)	WPA-SB-22-8.0-D	04/18/2017 13:35		
WPA-SB-24-10.0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20489 (Ice to 4C), 20490 (Ice to 4C) (4)	WPA-SB-24-10.0	04/18/2017 14:40		
WPA-SB-24-6.0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20499 (Ice to 4C), 20500 (Ice to 4C) (4)	WPA-SB-24-6.0	04/18/2017 14:35		
WPA-SB-26-6.0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20539 (Ice to 4C), 20540 (Ice to 4C) (4)	WPA-SB-26-6.0	04/18/2017 15:10		
WPA-SB-26-7.5	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20529 (Ice to 4C), 20530 (Ice to 4C) (4)	WPA-SB-26-7.5	04/18/2017 15:15		

### Special Instructions:

Analysis Key: VOA=VOA, VOA Moisture=VOA Moisture

**Shipment for Case Complete? N  
Samples Transferred From Chain**

Shipment for Case Complete? N					
Samples Transferred From Chain of Custody #					
Analysis Key: VOA=VOA, VOA Moisture=VOA Moisture					
Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	W. H. C. EPA	4-18-17 1800	Aaron Buehler EPA	4-18-17 1800	
	Aaron Buehler EPA	4-18-17 2000	Feeley (Covici)	4-18-17 2000	night shift
			J. Doe		

USEPA CLP COC (LAB COPY)

DateShipped: 4/18/2017  
CarrierName: FedEx  
AirbillNo 7789235707443

**CHAIN OF CUSTODY RECORD**

卷之三

**No: 6-041817-143936-0099**  
Lab: EPA Region 6 Laboratory  
Lab Contact: Christy Warren  
Lab Phone: 281-983-2137

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WPA-SB-24-0.5	Soil/ Will Ganter	Composite	TM+Hg(35)	1493 (Ice to 4C) (1)	WPA-SB-24-0.5	04/18/2017 14:25		
WPA-SB-24-10.0	Soil/ Will Ganter	Composite	TM+Hg(36)	1494 (Ice to 4C) (1)	WPA-SB-24-10.0	04/18/2017 14:40		
WPA-SB-24-10.0-D	Soil/ Will Ganter	Composite	TM+Hg(35)	1492 (Ice to 4C) (1)	WPA-SB-24-10.0-D	04/18/2017 14:40		
WPA-SB-24-2.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1495 (Ice to 4C) (1)	WPA-SB-24-2.0	04/18/2017 14:30		
WPA-SB-24-6.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1496 (Ice to 4C) (1)	WPA-SB-24-6.0	04/18/2017 14:35		
WPA-SB-26-0.5	Soil/ Will Ganter	Composite	TM+Hg(35)	1498 (Ice to 4C) (1)	WPA-SB-26-0.5	04/18/2017 15:00		
WPA-SB-26-2.0	Soil/ Will Ganter	Composite	TM+Hg(35)	1499 (Ice to 4C) (1)	WPA-SB-26-2.0	04/18/2017 15:05		
WPA-SB-26-6.0	Soil/ Will Ganter	Composite	TM+Hg(35)	20538 (Ice to 4C) (1)	WPA-SB-26-6.0	04/18/2017 15:10		
WPA-SB-26-6.0-D	Soil/ Will Ganter	Composite	TM+Hg(35)	20518 (Ice to 4C) (1)	WPA-SB-26-6.0-D	04/18/2017 15:10		
WPA-SB-26-7.5	Soil/ Will Ganter	Composite	TM+Hg(35)	1501 (Ice to 4C) (1)	WPA-SB-26-7.5	04/18/2017 15:15		
WPA-SB-26-7.5-D	Soil/ Will Ganter	Composite	TM+Hg(35)	1497 (Ice to 4C) (1)	WPA-SB-26-7.5-D	04/18/2017 15:15		

Sample(s) to be used for Lab QC: WPA-SB-24-0\_5 Tao 1493

Analysis Key TM+Hg=Total Metals + Hg

**Shipment for Case Complete? N**  
**Samples Transferred From Chain**

Analysis Key: TM+Hg=Total Metals + Hg					
Item/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	W. H. G. EA	4-18-17 1600	Alvin Bough EA		
	Alvin Bough EA	4-18-17 2000	Fate x (Foscier)		94.54% g/t

USEPA CLP COC (LAB COPY)  
 Date Shipped: 4/19/2017  
 Carrier Name: FedEx  
 Airbill No: 7789 3670 1692

## CHAIN OF CUSTODY RECORD

Case #:

No: 6-041917-080007-0106  
 Lab: EPA Region 6 Laboratory  
 Lab Contact: Christy Warren  
 Lab Phone: 281-983-2137

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WPA-SB-17-6-0-D	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20344 (Ice to 4C), 20345 (Ice to 4C) (4)	WPA-SB-17-6-0-D	04/19/2017 09:25		
ER-170418-1	Water/ Aaron Bugher	Grab	VOA(35)	1067 (Ice to 4C & HCl) (3)	ER-170418-1	04/18/2017 14:30		
ER-170419-1	Water/ Aaron Bugher	Grab	VOA(35)	1078 (Ice to 4C & HCl) (3)	ER-170419-1	04/19/2017 13:40		
TB-170418-1	Water/ Aaron Bugher	Grab	VOA(35)	418 (Ice to 4C & HCl) (3)	TB-170418-1	04/18/2017 06:00		
WPA-SB-17-10-0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20334 (Ice to 4C), 20335 (Ice to 4C) (4)	WPA-SB-17-10-0	04/19/2017 09:30		
WPA-SB-17-6-0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20344 (Ice to 4C), 20345 (Ice to 4C) (4)	WPA-SB-17-6-0	04/19/2017 09:25		
WPA-SB-18-10-0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20359 (Ice to 4C), 20360 (Ice to 4C) (4)	WPA-SB-18-10-0	04/19/2017 10:35		
WPA-SB-18-13-0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20349 (Ice to 4C), 20350 (Ice to 4C) (4)	WPA-SB-18-13-0	04/19/2017 10:40		
WPA-SB-20-10-0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	20409 (Ice to 4C), 20410 (Ice to 4C) (4)	WPA-SB-20-10-0	04/19/2017 12:30		
WPA-SB-20-22-0	Soil/ Will Ganter	Composite	VOA(35), VOA Moisture(35)	100 (Ice to 4C), 101 (Ice to 4C) (4)	WPA-SB-20-22-0	04/19/2017 12:35		

Special Instructions	Shipment for Case Complete? N Samples Transferred From Chain of Custody #		
Analysis Key: VOA=VOA, VOA Moisture=VOA Moisture			

Item/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Willie</i> <i>ann bugher EA</i>	4/19/17 16:00	<i>Ann Bugher EA</i>	4-19-17 1600	
	<i>ann bugher EA</i>	4/19/17 20:00	<i>Foster (carrier)</i>	4-19-17 2000	

*4/20/17 08:40*

Temp Blank = 0° Not Frozen